82D CONGRESS
1st Session

SENATE

EXECUTIVE
A

DOCUMENTS EXPEDITING PROJECT

NORTH AMERICAN REGIONAL BROADCASTING AGREEMENT AND FINAL PROTOCOL THERETO

MESSAGE

FROM

THE PRESIDENT OF THE UNITED STATES

TRANSMITTING

THE NORTH AMERICAN REGIONAL BROADCASTING AGREEMENT AND THE FINAL PROTOCOL THERETO, WHICH WERE SIGNED IN THE ENGLISH, SPANISH, AND FRENCH LANGUAGES AT WASHINGTON ON NOVEMBER 15, 1950, BY THE RESPECTIVE PLENIPOTENTIARIES OF THE UNITED STATES OF AMERICA, THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND FOR THE TERRITORIES IN THE NORTH AMERICAN REGION (BAHAMAS AND JAMAICA), CANADA, CUBA, AND THE DOMINICAN REPUBLIC

FEBRUARY 5, 1951.—The agreement and the final protocol were read the first time and the injunction of secrecy was removed therefrom. The agreement and final protocol, the accompanying letter of transmittal, and the report by the Secretary of State, with attached papers, were referred to the Committee on Foreign Relations, and were ordered to be printed for the use of the Senate

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THE WHITE HOUSE, *February 5, 1951.*

To the Senate of the United States:

With a view to receiving the advice and consent of the Senate to ratification, I transmit herewith the texts, as certified by the Government of Canada, of the North American Regional Broadcasting Agreement and the final protocol thereto, which were signed in the English, Spanish, and French languages at Washington on November 15, 1950, by the respective plenipotentiaries of the United States of America, the United Kingdom of Great Britain and Northern Ireland for the territories in the North American region (Bahamas and Jamaica), Canada, Cuba, and the Dominican Republic.

I transmit also, for the information of the Senate, the report by the Secretary of State with respect to the instruments above-mentioned.

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For the reasons indicated in that report and in the memorandum enclosed therewith, I urge the Senate to give favorable consideration to the North American Regional Broadcasting Agreement, with the final protocol thereto.

HARRY S. TRUMAN.

Enclosures: (1) Report by the Secretary of State, with enclosure; (2) North American Regional Broadcasting Agreement, signed at Washington, November 15, 1950.)

DEPARTMENT OF STATE,
Washington, February 1, 1951.

The PRESIDENT,
The White House:

The undersigned, the Secretary of State, has the honor to lay before the President, with a view to their transmission to the Senate to receive the advice and consent of that body to ratification, if his judgment approve thereof, the texts, certified by the Government of Canada, of the North American Regional Broadcasting Agreement and the final protocol thereto, which were signed in the English, Spanish, and French languages at Washington on November 15, 1950, by the respective plenipotentiaries of the United States of America, the United Kingdom of Great Britain and Northern Ireland for the territories in the North American region (Bahamas and Jamaica), Canada, Cuba, and the Dominican Republic.

The agreement, sometimes referred to herein as NARBA, and the final protocol thereto were formulated at the Third North American Regional Broadcasting Conference, which was held in two sessions, as hereinafter explained. The Federal Communications Commission and the Department of State concur in considering that ratification and entry into force of the agreement would be clearly in the best interests of the United States.

The agreement submitted herewith is the third of a series of agreements between countries in the North American region designed to govern the international aspects of standard (AM) radio broadcasting in this region. Its purpose is to make it possible for the countries which are parties to the agreement to make the most effective technical use of the radio frequency bands available for such broadcasting, with a minimum of interference between stations of the several countries, within a framework of international stability in the field.

The first North American Regional Broadcasting Agreement was signed at Habana on December 13, 1937, and was brought into force, as a result of ratification, between the United States of America Canada, Cuba, the Dominician Republic, Haiti, and Mexico. It was brought into force in 1942, as a result of adherence, with respect to the Bahamas and Newfoundland. That agreement (55 Stat., pt. 2, 1005) remained in force, pursuant to its own terms, only through March 28, 1946, 5 years after entry into force. Meanwhile, however, on February 25, 1946, there was concluded at a Second North American Regional Broadcasting Conference in Washington an interim agreement (modus vivendi) between the United States, Canada, Cuba, the Dominician Republic, Mexico, the Bahama Islands, and Newfoundland to regulate the use of the standard broadcast band in the

North American region (60 Stat. 1862). That agreement, which became effective on March 29, 1946, expired 3 years later, in March 1949. Efforts of the interested countries to enter into a new NARBA resulted in the signing of the agreement which is submitted herewith.

The new agreement, which is similar in its general pattern and in subject matter to the Habana agreement of 1937, is the result of more than 3 years of discussions and negotiations between the interested governments. A meeting of technicians was held in Habana during the autumn of 1947 to consider the bases for the desired agreement. The first session of the Third North American Regional Broadcasting Conference was held in Montreal, September–December 1949. The basic causes of the suspension of deliberations were differences between the United States and Cuba with respect to matters of station assignments and protection. During February and March of 1950 representatives of the United States and representatives of Cuba met in Habana for the purpose of exploring the possibility of resolving those differences. The second session of the Conference was held in Washington, September–November 1950. Mr. Rosel H. Hyde, Commissioner, Federal Communications Commission, was chairman of the United States delegation at both sessions.

It will be observed that the new NARBA was not signed on behalf of Mexico or Haiti. The North American region, as defined in the agreement, includes those two countries. Provision is made in the agreement for adherence thereto by either or both of those countries.

During the period of extensive discussions and negotiations leading to the new NARBA, the representatives of all broadcasting interests in the United States, particularly the licensees of broadcasting stations, were accorded the fullest opportunity to participate in the formulation of United States policy with respect to the negotiation and prospective provisions of the agreement. They contributed greatly of their time and ability. The agreement was signed on behalf of the United States only after the most careful consideration of all views with respect to the prospective provisions.

From the viewpoint of an orderly and effective broadcasting system, the importance of the agreement submitted herewith, as well as of previous agreements dealing with the same subject, stems from certain basic engineering facts concerning the behavior of radio signals. Such signals do not stop at political or geographic boundaries. In the standard broadcasting band (535–1605 kilocycles) signals of a station in one country are capable of causing the most serious interference to stations in other countries operating on the same or adjacent channels. Accordingly, the assignment of frequencies to standard (AM) broadcasting stations and the determination of operating standards for such stations, on the basis of coordination and agreement among neighboring countries, have a twofold importance. They provide the only satisfactory basis for reasonable assurance that, in the reception of radio-program service, the public will not be plagued unduly with interference from foreign stations. Furthermore, and of considerable importance to an orderly and more efficient development of broadcasting service domestically, there is assured a fair measure of stability at the international level.

Under the Habana agreement of 1937 and the interim agreement of 1946 the participating countries acknowledged the sovereign right of each with respect to the use of all standard broadcasting channels, but

agreed upon a system of priorities and engineering standards designed to minimize interference and generally to provide for the orderly use of such channels in the North American region. An outstanding feature of the Habana agreement was a provision designating certain channels as clear channels and providing for priority of use in designated countries of a number of such channels under conditions protecting them throughout the area of the country having the priority. In all, 38 clear channels were assigned on this basis: 25 to the United States, 6 to Canada, 6 to Mexico, and 1 to Cuba. In addition to the provisions establishing these priorities for the use of clear channels, priorities were also established for stations on other clear channels and for regional and local stations. Moreover, procedures were set up for subsequent notifications under which priorities for additional stations could be established. These procedures involved simply the giving of notice of the establishment of new stations which, while required to protect previously assigned stations from undue interference, became in turn entitled to protection from interference resulting from the operation of stations covered by subsequent notifications.

In 1937 the broadcasting industry in the United States had developed to a far greater extent than in any other country in the region, and it continued to develop much faster than in any of the other countries. A very extensive industry operating more than 2,200 stations, several times greater than the number of stations in all of the other countries of the region combined, has been established upon the basis of priorities and the notification procedure established under previous agreements between the countries of the region. As a practical matter, the continued recognition of these priorities and assignments internationally necessarily depends in large measure upon a continuance in effect of international agreements such as the new NARBA, submitted herewith.

In the development of the new NARBA it has been necessary that the many points of view of the several countries involved be taken into account. Consequently, the agreement admittedly does not represent an ideal arrangement from the viewpoint of any one of the countries alone. Thus, for example, in order to secure agreement by the other countries to recognition of existing stations in the United States and agreement upon technical standards essential for the protection of the vast number of stations in the United States, including the clear channel class 1–A stations in this country, it was necessary for the United States to agree upon provisions which would meet the basic needs of the other countries. In some instances this meant the inclusion of less favorable provisions for the United States than were contained in the previous NARBA. The other countries participating in the new NARBA fare at least as well as they did under the previous agreement, and in many important respects their situation is substantially improved. The latter is particularly true in the case of Cuba and also, to some extent, in the cases of Canada, Jamaica, and the Dominican Republic. It was to be expected that some adjustment would be required, in view of the changed conditions in the field of standard broadcasting since 1937 and 1946, especially the very rapid growth in broadcasting activity during that period.

The agreement as finally signed represents the best arrangement that could be negotiated, taking into account the existing situation and the diverse interests which had to be accommodated. Moreover,

it clearly would provide a significant improvement for the United States over the increasingly chaotic situation which has existed for more than a year and a half since the expiration of the interim agreement of 1946 and which can reasonably be expected to continue, probably becoming worse, in the absence of a new agreement. Relatively few stations in the United States are likely to be affected adversely by the terms of the new NARBA. On the other hand, the agreement would make it possible to maintain, in practical effect, the same general level of broadcasting service enjoyed by the people of the United States. Also, it would be possible within the framework of the new agreement to effect needed improvement in such service. It is believed that the new agreement would facilitate rather than hinder efforts to accomplish such improvement. The Department of State and the Federal Communications Commission, concurring in the view that the best interests of the United States fully warrant ratification and entry into force of the new agreement, fully appreciate both the unfavorable and favorable aspects of the agreement and base their judgment upon a careful appraisal of the agreement.

A more specific explanation with respect to certain of the matters covered by the new agreement will be of assistance in evaluating the merits of the agreement and in the consideration of such questions as may be raised concerning its provisions. For that purpose, and in order to simplify to some extent the present report, there is enclosed herewith a memorandum setting forth additional commentaries relating to various of the more important aspects of the agreement.

To summarize: Taking into account the diverse interests of the countries concerned, the new NARBA is considered to be, despite certain drawbacks, the most satisfactory agreement that could be negotiated at this time. There are some features of the agreement which, from the viewpoint of the United States, are not wholly desirable and in some respects the agreement is not as favorable to the United States as was the original NARBA agreement of 1937. Nevertheless, it must be realized that, for reasons indicated hereinbefore and in the enclosed memorandum, there is no practical possibility of restoring the situation as it existed under the provisions of the previous agreement. Under the new NARBA the position of broadcasting in the United States would, in the view of the Department of State, the Federal Communications Commission, and a number of non-Government broadcasting interests, be far more favorable than would be the case in the absence of such an agreement. Within the framework of the new NARBA the people of the United States can continue to receive, in general, the same level of broadcasting service received by them heretofore and there is considerable room within that framework for improvement of broadcasting service within the United States by domestic action. On the basis of past experience and a practical view of international political factors involved, it is clear that the primary question with respect to the new NARBA is whether the public interest of the United States in the field of broadcasting would be served better by the ratification and entry into force of the agreement than by no agreement at all, since there is no real prospect for negotiation of a more favorable agreement. Notwithstanding the opposition of some elements of the broadcasting industry, it is considered that the best interests of the United States would be served by ratification and entry into force of the agreement.

It is provided in section I of part III of the agreement that the agreement shall enter into force when ratified or adhered to by the Governments of at least three of four designated countries (Canada, Cuba, Mexico, and the United States), that the date of entry into force shall be "the fifteenth day after the date on which the third of such instruments of ratification or adherence shall have been deposited," and that the agreement shall be valid only as between governments which have deposited their instruments of ratification or adherence. It is provided further that the agreement shall remain in effect for a period of 5 years after entry into force and, if no new agreement shall have entered into force by the expiration of that period, shall remain in force until the date of entry into force of a new agreement. A procedure is provided also whereby any contracting government may denounce the agreement and cease to be a party thereto.

It should be noted also that provision is made in part III of the agreement for the next plenipotentiary conference, to be held not later than 4 years after the agreement enters into force, at which conference the agreement may be revised, and also for an administrative conference, to meet at least once prior to the next plenipotentiary conference, at which administrative conference the broadcasting regulations (annex 2) may be revised, except as provided with respect to the tables of priorities (appendix A to annex 2).

The three annexes are part of the agreement. Annex 1 contains general regulations governing conferences and meetings. Annex 2, with 11 lettered appendixes, contains broadcasting regulations. Annex 3 contains an initial broadcasting station assignment list.

The resolutions and recommendations adopted at the Third North American Regional Broadcasting Conference are not a part of the agreement and do not require ratification.

Respectfully submitted.

DEAN ACHESON.

(Enclosures: (1) Memorandum of additional commentaries; (2) North American Regional Broadcasting Agreement, signed at Washington November 15, 1950.)

MEMORANDUM OF ADDITIONAL COMMENTARIES RELATING TO VARIOUS OF THE MORE IMPORTANT ASPECTS OF THE NEW NARBA

The additional comments below, with respect to the North American Regional Broadcasting Agreement (the new NARBA) signed at Washington on November 15, 1950, will assist in evaluating the merits of the agreement:

GENERAL

Station Notifications and Classifications and General Standards of Protection from Interference: The new NARBA provides in general for continued recognition of past notifications of United States stations and for international acceptance by the parties thereto of the station and channel classifications, engineering standards of station protection, and other related engineering factors. This is basic from the viewpoint of the United States if many of its approximately 2,200 standard (AM) broadcasting stations are to continue to operate within the band

of 107 channels available for such broadcasting and continue to receive the international protection necessary for a stabilized broadcasting system capable of genuinely serving the people of this country. For example, under the new NARBA the channels available for standard broadcasting are classified as "clear", "regional", and "local" channels as under past agreement; stations are classified in Classes I, II, III, and IV; and power and other specific engineering requirements are set out to govern the use of the several types of channels and the operation of the different classes of stations. The importance of provisions such as these should be fully appreciated for our whole broadcasting system is predicated upon the use of such classifications and standards internationally as well as domestically. And, as indicated earlier, such station and channel classifications, and engineering standards, as well as the continued acceptance and protection of our existing station assignments, are effective from an international viewpoint only to the extent that they are provided for by agreement. One of the technical standards contained in past agreement and in the new agreement, but with respect to which Cuba has taken reservation in the new agreement, is the so-called "650-mile rule". It is referred to subsequently in connection with provisions of the agreement concerning clear channels.

Duration of Agreement: Investigation and Elimination of Objectionable Interference: Arbitration, etc.: The new NARBA contains a number of provisions of a general legal and administrative nature which are most important from the viewpoint of the United States. For example, provision is made that the new NARBA will remain in effect even beyond its normal term of five years in the event that a subsequent NARBA is not available to replace it. Thus, in the absence of denunciation of the agreement, the type of uncertainty and dislocation which has existed during the past year or two because of the absence of an agreement will be circumvented for the future. The new NARBA also contains agreement by the parties to cooperate in the investigation and elimination of objectionable interference. Moreover, it contains clear-cut provisions for compulsory arbitration of disputes in the event that such disputes are not settled otherwise, and for the holding of administrative conferences permitting frequent consideration of engineering matters during the period between plenipotentiary conferences.

Clear Channels

Class 1–A stations: Under the original NARBA the United States secured priority in the use of 25 clear channels for Class 1–A stations. As a result of domestic assignments this number was reduced to 24 during the period of past agreement. Class 1–A stations are intended to serve wide areas at considerable distances from the transmitter location. The protection to which these stations were entitled under the original NARBA was basically (a) a requirement that the signal at the border of the United States from any foreign station on the channel not exceed a specified maximum strength and (b) that no foreign station operate on the channel at night within 650 miles of the United States border. As previously indicated, Canada and Mexico each received 6 such assignments and Cuba received 1, which it subsequently relinquished upon acquiring a number of other important

privileges in the interim agreement. Under the interim agreement of 1946 Cuba was authorized to establish stations on 4 of the 24 clear channels upon which the United States had Class 1–A priority. No requirement was specified for protection of these Cuban stations from interference caused by stations in the United States.

Since expiration of the original NARBA and the interim agreement, Cuba, asserting a right as a sovereign country to use of all channels in the absence of any agreement to the contrary, has assigned one or more stations to each of approximately 14 of these channels. And, in the absence of any NARBA, Cuba has considered itself to be without special obligation to protect the United States stations on these channels. Under the new NARBA, the number of clear channel Class 1–A priorities recognized for the United States has been restored to 25 and the number of such priorities recognized for Canada has been increased from 6 to 7. One such priority is also recognized for the Bahamas. Cuba will utilize only 6 of the 25 channels so assigned to the United States, withdrawing stations from approximately 8 of them. Moreover, Cuba has agreed to accord a high degree of protection to the United States stations on those channels. Jamaica would use 2 of the 25 channels, but would fully protect the border of the United States. On these 8 channels, i. e., the 6 to be used by Cuba and the 2 to be used by Jamaica, the United States would provide a limited protection to the Cuban and Jamaican stations specified in the agreement but would otherwise retain full freedom in the use of those channels.

Accordingly, under the new NARBA the United States would retain its Class 1–A priority on 25 clear channels. This is the same number as under past agreement. On 19 of these channels all other countries signatory to the agreement would protect the United States stations to the border of the United States. For example, in the case of Cuba this would mean protecting the United States to the tip of Florida even though we may not at present have a useful signal at that point. The border protection specified in such cases is exactly the same as that which was provided in past agreement. From our recent experience without an agreement it is quite clear that in the absence of the new NARBA continued recognition by all parties to the agreement of the priorities and protection just indicated cannot be expected. On 6 of these channels the United States station would receive a degree of protection which, though somewhat less than full 1–A protection, is greater than that accorded any other type of station and would still permit them to render service over extensive areas hundreds of miles from the station. On these channels, also, a considerably lesser degree of protection could be expected in the absence of the new NARBA. In view of the provision of the NARBA requiring full "border" protection to United States stations on 19 clear channels, and in view of the fact that under the agreement the United States would have no obligation whatever to protect any station that might in the future be assigned on any of its 1–A channels, failure of Cuba to accept the so-called 650-mile rule does not in reality appear to present a particularly serious difficulty, although it would have been preferable to have Cuban acceptance of that rule and every effort was made by the United States Delegation to secure such acceptance.

It is to be noted that in no case is a Class 1–A station in the United States required to change its operation.

One of the important factors in evaluating the effect of the new NARBA is the effect that the provisions with respect to Class 1–A priorities would have upon service to rural areas in the United States. As a result of the reduction in the actual use by Cuba of clear channels upon which the United States has Class 1–A priority, there would, as a practical matter, be a significant improvement in service to rural areas from Class 1–A stations. Moreover—and this is of utmost importance—in the absence of the new NARBA interference to such rural service from stations in other countries would in all probability become even worse than at present. The improvement in rural service that would result from the new NARBA is of utmost importance because of the great dependence in rural areas upon 1–A channels for broadcasting service.

The new NARBA also contains most important provisions concerning Class 1–A channels which are favorable to the United States and which were not found in earlier agreement. For example, flexibility in the use of Class 1–A channels, that is, freedom to add additional stations to those channels, change existing assignments, increase power, etc., without in any way jeopardizing internationally the Class 1–A status and protection of its 25 channels, and without the obligation to protect any foreign stations on the channels with the exception of the 6 Cuban and 2 Jamaican stations which have been referred to at an earlier point and which would be entitled to protection as Class II stations. The clear recognition of this right of flexibility was not contained in past agreement and is a matter of greatest importance in order to make possible the most effective domestic improvement in broadcasting service.

Class 1–B stations: This class of station, like Class 1–A stations, is intended to serve wide areas through skywave service. Although a station of this class does not receive protection from foreign interference at the border of the country, it does receive a high degree of protection in areas in which its service is useful. Under the new NARBA, Cuba would be permitted to cause some derogation of the usual protection standards for United States Class 1–B stations by 14 stations on 11 channels. Under past agreement this was permitted by 6 stations on 5 channels. However, in none of these instances recognized in the new NARBA does it appear that as a practical matter the United States station would suffer sufficiently to prevent satisfactory accomplishment of its operation. Moreover, under the new NARBA 3 additional Class 1–B priorities are recognized for the United States, and in no case would it be necessary for the United States station to change its operation.

Class II stations: A Class II station also operates on a clea. hannel but its operation is subordinate to the Class I operation on the channel. Under past agreement Class II stations were not entitled to any protection from Class I stations. Under the new agreement those Class II stations which now exist would receive a degree of protection from changes in existing Class I assignments and from future Class I assignments. It is under this new provision that the Cuban and Jamaican Class II stations on 8 clear channels upon which the United States has Class 1–A priority would receive some protection. However, it is important to note that under this provision at least 25 Class II stations in the United States would also be entitled to protection from Class I stations for the first time. In addition, to

accommodate certain frequency changes in Cuba which are part of a general reallocation in that country, 3 United States Class II stations would be required under the new NARBA to change frequency, with consequent changes being required in their antennas and equipment.

Regional Channels

Class III stations: There are approximately 900 Class III stations in the United States. In general, they are intended to serve not only the cities in which they are located but also a substantial area surrounding their locations. With few exceptions, the standards governing Class III stations and protection remain the same under the new NARBA as under past agreements. In 10 cases Cuban stations on regional channels would be permitted to operate with powers in excess of that normally permitted on such channels. In 3 of these cases the Cuban stations are classified as Class III stations. In 7 of these cases the Cuban stations are classified as Class 1–C or 1–D stations which are discussed in the immediately following paragraph. However, in all 10 of these cases the Class III protection is accorded the United States stations on the channels involved. In one of these cases a United States station would be required to modify its antenna system to reduce radiation towards Cuba. However, Cuba would also be required to modify its use of the same frequency in order to reduce radiation towards stations in the United States to an equal degree.

Special Protection of Certain Cuban stations: On 11 channels Cuba would be entitled to a relatively high degree of protection from *future* assignments in other countries. These Cuban stations would be classified as Classes 1–C and 1–D stations. It is to be noted in this connection that under the new agreement Cuba does not receive any Class 1–A assignments and would receive only one Class 1–B assignment. It is also to be noted, as indicated above, that the special protection to which Cuban 1–C and 1–D stations would be entitled in no way affects existing stations. It only has reference to future assignments.

NORTH AMERICAN REGIONAL BROADCASTING

AGREEMENT

FINAL PROTOCOL TO THE AGREEMENT

Washington, D. C., 1950

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(Annex 3 appears in the latter part of this publication)

FINAL PROTOCOL

to the North American Regional Broadcasting Agreement

concerning Cuba and Dominican Republic..... 68

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NORTH AMERICAN REGIONAL BROADCASTING

A G R E E M E N T

concluded among the Governments of the following countries:

Canada
Cuba
Dominican Republic
United Kingdom of Great Britain and
Northern Ireland for the Territories
in the North American Region
(Bahama Islands and Jamaica)
United States of America

The undersigned, plenipotentiaries of the Governments of the countries listed above, having met in Plenipotentiary Conference in Montreal, Que., Canada, and in Washington, D. C., United States of America, have concluded the following Agreement:

PART I

PURPOSE AND SCOPE OF AGREEMENT

1. Purpose of Agreement

The purpose of this Agreement is to establish fair and equitable principles governing, and to regulate, the common use of the broadcasting band in the North American Region so that each country within the Region may make the most effective technical use thereof with the minimum of interference between broadcasting stations.

2. North American Region

For the purposes of this Agreement, the North American Region shall consist of the following countries: Bahama Islands and Jamaica, Canada, Cuba, Dominican Republic, Haiti, Mexico and the United States of America (including Alaska, Puerto Rico and the Virgin Islands).

3. Contracting Government

For the purposes of this Agreement, the term "Contracting Government" means a Government of a country in the North American Region which shall have signed and ratified, or which shall have adhered to, this Agreement.

4. Broadcasting Band

For the purposes of this Agreement, the term "broadcasting band" means the band of medium frequencies defined in the Broadcasting Regulations contained in Annex 2.

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5. Sovereign Rights of Countries

While fully recognizing the sovereign right of each country in the field of broadcasting, the Contracting Governments also recognize that, until technical developments reach a state permitting the elimination of radio interference of an international character, a regional agreement between them is necessary in order to promote and maintain standardization and to minimize interference.

6. Regional Character of Agreement

This Agreement is a regional agreement within the meaning of Article 41 of the International Telecommunication Convention, Atlantic City (1947), and Article 29 of the Inter-American Radio Communications Convention, Habana (1937). In conformity with these Articles, each provision of this Agreement is subject to the provisions of said Conventions and of the Radio Regulations annexed to the International Telecommunication Convention.

7. Annexes to this Agreement

The following annexes complete and form an integral part of this Agreement:

(a) General Regulations contained in Annex 1,

(b) Broadcasting Regulations, together with the Appendices, contained in Annex 2, and

(c) Initial Broadcasting Station Assignment List contained in Annex 3.

PART II

DEFINITIONS

For the purposes of this Agreement:

1. Broadcasting Station

The term "broadcasting station" means a station authorized to operate in the broadcasting band whose transmissions are to be received directly by the general public.

2. Broadcasting Channel

The term "broadcasting channel" means the band of frequencies occupied by the carrier and two side bands of a signal of a broadcasting station with the carrier frequency at the center. Each broadcasting channel shall be designated by its assigned carrier frequency.

3. Objectionable Interference

The term "objectionable interference" means interference to the signals of a broadcasting station in one country caused by the signals of one or more broadcasting stations in another or other countries, in excess of that permitted in this Agreement.

4. Ground Wave Signal

The term "ground wave signal" means the radiated signal which is propagated close to the surface of the earth and which has not been reflected back from the ionosphere.

5. Sky Wave Signal

The term "sky wave signal" means the radiated signal which has been reflected back from the ionosphere.

6. Existing Broadcasting Stations

The term "existing broadcasting stations" means, as of the date of signing this Agreement, all broadcasting stations whose assignments are listed in the Initial Broadcasting Station Assignment List in Annex 3, or, at any given time thereafter, the broadcasting stations enumerated in said list as supplemented or modified by new broadcasting station assignments and changes in, or deletions of, broadcasting station assignments made in accordance with the terms of this Agreement.

7. Clear Channel

The term "clear channel" means a broadcasting channel to which are assigned primarily one or more Class I stations, so protected from interference as to render broadcasting service over extensive areas by means of sky wave signals as well as ground wave signals. The following broadcasting channels are designated clear channels: 540, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 940, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580 kc/s.

8. Regional Channel

The term "regional channel" means a broadcasting channel to which are assigned several broadcasting stations so protected from interference as to render broadcasting service over considerable areas by means of ground wave signals and on which channel no protection from interference is generally given to service obtained from sky wave signals, except as specifically provided in Tables III and IV of Appendix A of Annex 2. The following broadcasting channels are designated regional channels: 550, 560, 570, 580, 590, 600, 610, 620, 630, 790, 910, 920, 930, 950, 960, 970, 980, 1150, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1350, 1360, 1370, 1380, 1390, 1410, 1420, 1430, 1440, 1460, 1470, 1480, 1590, 1600 kc/s.

9. Local Channel

The term "local channel" means a broadcasting channel to which are assigned many broadcasting stations so protected from interference as to render broadcasting service over limited areas by means of ground wave signals and on which channel no protection from interference is given to service obtained from sky wave signals. The following broadcasting channels are designated local channels: 1230, 1240, 1340, 1400, 1450, 1490 kc/s.

PART III

PROCEDURES

A. Conferences

1. Classes of Conferences

Two classes of Conferences relating to this Agreement may be held: (a) Plenipotentiary and (b) Administrative.

2. Plenipotentiary Conferences

(a) The next Plenipotentiary Conference shall meet not later than four years after the entry into force of this Agreement, at a time and place to be fixed by agreement of a majority of the Governments of the countries in the North American Region. The time of the next Plenipotentiary Conference may, however, be postponed, or the place may be changed, by agreement of a majority of the said Governments.

(b) A Plenipotentiary Conference may revise the Agreement.

3. Administrative Conferences

(a) An Administrative Conference shall meet at least once prior to the next Plenipotentiary Conference at a time and place to be fixed by agreement of a majority of the Contracting Governments, and thereafter at a time and place to be fixed in the same manner. The time and place may be changed by agreement of a majority of the Contracting Governments.

(b) An Administrative Conference, within the limits of this Agreement, may:

1) Revise Annex 2. However, Appendix A of said Annex, which must be accepted by all Contracting Governments, may be revised only at a Plenipotentiary Conference unless the Contracting Governments unanimously agree that such revision may be undertaken at an Administrative Conference.

2) Deal with all matters of an administrative nature or with other matters in accordance with any directive given by a Plenipotentiary Conference.

4. Date and Place of Conferences, Invitation and Circulation of Proposals

(a) Within the limitations of this Agreement, the host Government for a Conference shall fix the exact date and place of the Conference.

(b) Invitation to conferences and the circulation of proposals shall be in accordance with the provisions of Annex 1.

5. Rules of Internal Procedure of Conferences

Each conference shall be governed by the Rules of Internal Procedure set forth in Annex 1, with such modifications as it deems necessary for its own meetings.

B. Revision of Technical Matters in Broadcasting Regulations

In addition to the procedures for revising Annex 2, herein above provided, said Annex may be revised, with respect to technical matters and standards of good engineering practice, by means of a supplement, prepared by technicians appointed by the Contracting Governments, which is unanimously approved by such Governments. This may be accomplished as set forth in paragraph 2 of Section E of Annex 2.

C. Cooperation of the Governments in the Work of Research and Exchange of Information

The Contracting Governments bind themselves to gather properly proven data, and to make studies thereon, and to exchange information which will assist said Governments in complying with the technical provisions of this Agreement.

D. Rights and Obligations with Respect to Existing Broadcasting Stations

With respect to existing broadcasting stations, each Contracting Government shall have the rights and obligations established for it by this Agreement, especially the preservation of priorities and the protection from interference, specified herein. In making assignments of new broadcasting stations, or changes in or deletions of assignments of existing broadcasting stations, and with respect to the operation of broadcasting stations, each Contracting Government shall comply with the provisions of this Agreement.

E. Methods of Determining the Presence, Degree or Absence, of Objectionable Interference

1. The presence, degree, or absence, of objectionable interference on the same or adjacent broadcasting channels shall be determined by one of the following methods:

   (a) by reference to the propagation curves in Appendices E and I of Annex 2, or

   (b) by actual field intensity measurements or recordings.

2. The field intensity measurements or recordings shall be made with mutually acceptable apparatus, duly calibrated, and shall be carried out by technicians designated by the interested Governments. Such field intensity measurements shall be made in the manner, and for the periods of time, agreed upon by the Governments concerned. The Contracting Governments shall facilitate the making of the measurements by requiring the broadcasting stations involved to suspend operation or to operate in the manner such Governments deem necessary.

F. Notification

1. Performance of the Notification Exchange Function

Notifications concerning broadcasting station assignments and changes in or deletions of such assignments, objections thereto, and other communications made pursuant to the provisions of this Section F, shall be sent

for purposes of exchange to the Agency or Government which, in accordance with Section F of Annex 2, performs the notification exchange function.

2. Notifications of New Broadcasting Station Assignments or of Changes in Existing Broadcasting Station Assignments

In making any notifications of a new broadcasting station assignment, or of a change in an existing broadcasting station assignment, the Government shall supply the basic information, which is essential to constitute a notification. The basic information shall be accompanied or followed as soon thereafter as possible, but in no case more than sixty days thereafter, by supplementary information.

(a) New Broadcasting Station Assignments

(1) Basic Information. Basic information shall consist of the following: frequency; class of station; location by city and province or state; power; time designation; whether a directional antenna is to be used and the time during which it will be used (DA-1, DA-2, DA-N or DA-D); the date of expected commencement of operation.

(2) Supplementary Information. Supplementary information shall consist of the following: call sign; geographical location of the midpoint of the antenna system in degrees and minutes of latitude and longitude; and,

(i) for a directional antenna system, its electrical and physical dimensions, the horizontal radiation pattern for day operation, and the horizontal and vertical radiation patterns for night operation (the vertical patterns to be supplied only for directions in which protection is required for stations in other countries);

(ii) for omnidirectional antennas, the electrical and physical dimensions (including those of the ground system, etc.)* and the horizontal unattenuated radiated field at one statute mile (or its international equivalent in kilometers) for one kilowatt of input power to the antenna.

(b) Changes in Broadcasting Station Assignments

(1) Basic Information. The basic information shall consist of the nature of the change, together with the date of expected consummation thereof, and any revision of the basic information previously supplied necessary to make it conform to the change.

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* It is assumed that omnidirectional antennas will be guyed or self-supporting insulated towers located on the ground with a buried radial ground system. Where the antenna system deviates from this, (for example: is located on a building; is a type T or inverted L; is shunt fed; is sectionalized or top loaded) full particulars, including a sketch if necessary for clarity, shall be submitted.

(2) Supplementary Information. The supplementary information shall consist of any revision of the supplementary information previously supplied necessary to make it conform to the change.

3. Notifications of Deletions of Broadcasting Station Assignments

Notifications of deletions of broadcasting station assignments shall consist of sufficient information to identify the station assignment deleted, including call sign, location, frequency and power, together with the date on which the station has ceased, or is expected to cease operation.

4. Notifications of Commencement or Cessation of Operation of, and Consummation of Changes in, Broadcasting Stations

The exact date of commencement or cessation of operation of a broadcasting station, or of consummation of a change in a broadcasting station, shall be notified.

5. Initial Broadcasting Station Assignment List

(a) The Initial Broadcasting Station Assignment List is contained in Annex 3. The list sets forth those broadcasting station assignments which have heretofore been duly notified in accordance with the terms of the first North American Regional Broadcasting Agreement and the North American Regional Broadcasting Interim Agreement (Modus Vivendi) up to and including March 28, 1949, as supplemented and modified by new broadcasting station assignments and changes in, and deletions of, broadcasting station assignments which have been incorporated in said Annex. Annex 3 contains the following information with respect to the assignments listed therein: name of the country; frequency; call sign, if assigned; class of station; location by city and province or state; power; time designation; whether a directional antenna is used or to be used; and, where appropriate, details of protection from interference accorded to and received from broadcasting stations in other countries.

(b) New broadcasting station assignments and changes in broadcasting station assignments, together with the information relating to them incorporated in the Initial Broadcasting Station Assignment List in Annex 3, shall be deemed to be duly notified and accepted by the Contracting Governments on the date of the signing of this Agreement. Objections relating to said assignments shall be limited to the additional information required in connection with said assignments and in accordance with paragraph 5. (c) of this Section F.

(c) So far as possible, within sixty days after the date of signing this Agreement or at any time thereafter, but in no event later than thirty days after the date of deposit of their respective instruments of ratification or adherence, the Governments shall supply, with respect to their broadcasting station assignments contained in Annex 3, all the basic and supplementary information specified in paragraph 2 above, which has not been included in said Annex or which has not previously been supplied in notifications made prior to the date of signing this Agreement.

(d) So far as possible, within a period of sixty days after receiving the additional information supplied in accordance with the preceding subparagraph (c), but in no event later than sixty days after the date of entry into force of this Agreement, any Government may advise the Government supplying the additional information of objections it may have to the effect that, in the light of such additional information, the operation of a broadcasting station for which an assignment is listed in Annex 3 will not be in compliance with all the pertinent provisions of this Agreement.

(e) No Government shall be required to make changes in any broadcasting station as shown in the Initial Broadcasting Station Assignment List, supplemented by the additional information submitted in accordance with subparagraph (c) above, with respect to which any objection has been resolved because of interference it may cause in excess of the amount specified in Annex 2, except and to the extent that such changes are necessary in said broadcasting stations to meet the requirements in the notes to Annex 3.

6. Supplementary Broadcasting Station Assignment List

(a) The Supplementary Broadcasting Station Assignment List shall consist of such assignments of new broadcasting stations, changes and deletions in broadcasting station assignments as shall have been authorized by each Contracting Government during the period between the date of signing this Agreement and the date of its entry into force, provided that they comply with the following requirements:

(1) Such new broadcasting station assignments, changes and deletions shall have been duly notified to the Governments of the other countries in the North American Region as provided in paragraphs 1, 2 and 3 of Section F, and

(2) Such assignments, changes and deletions shall comply in all other respects with the pertinent terms of this Agreement.

(b) The Government of any other country in the North American Region may advise the Government making the notifications referred to in the preceding subparagraph (a) (1) of this paragraph of any objection it may have thereto under the terms of this Agreement. Said objections shall be made not later than sixty days after the date of entry into force of this Agreement. However, every effort shall be made to submit said objections prior to that date and in the manner and within the time limits hereinafter specified with respect to objections to subsequent notifications.

(c) Within one hundred and twenty days after the date of entry into force of this Agreement, the Agency or Government performing the notification exchange function shall prepare and distribute a copy of the Supplementary Broadcasting Station Assignment List to the Governments of all the countries in the North American Region, together with information indicating which notifications in the Initial and Supplementary Broadcasting Station Assignment Lists are still the subject of unresolved objections.

7. Subsequent Notifications

(a) After the date of entry into force of this Agreement and throughout the period in which it shall remain in effect, each Contracting Government shall notify the other Contracting Governments of all new broadcasting station assignments, and all changes in or deletions of existing broadcasting station assignments in accordance with paragraphs 1, 2 and 3 of this Section F.

(b) To be valid, each such notification must be such that the new broadcasting station, change or deletion proposed therein is in accordance with this Agreement.

(c) Each Contracting Government may, within thirty days after the date of receipt of such notification, advise the Government making the notification of any objection it may have thereto under the terms of this Agreement.

(d) In case the supplementary information does not accompany the basic information and such supplementary information is received within the period specified in paragraph 2 of this Section F, the period during which objection may be made shall be extended to thirty days after the date of receipt of such supplementary information.

(e) Failure of any Contracting Government to object to a notification within the period specified above shall be deemed to be an acceptance by that Government of such notification.

(f) The date of priority of a notification shall be determined by the date of receipt, by the Agency or Government performing the notification exchange function, of the basic information constituting the notification, provided the supplementary information with respect to such notification is also submitted within the period specified therefore in paragraph 2 of this Section F. As between two or more notifications proceeding from different Governments, priority in the date of receipt thereof by the Agency or Government performing the notification exchange function shall govern.

8. Cessation of Effect of Notification

(a) A broadcasting station assignment in the Initial Broadcasting Station Assignment List shall cease to have any validity if the additional information required by paragraph 5. (c) of this Section F is not supplied within the specified time and all rights with respect to such assignment shall cease.

(b) Any other notification of a new broadcasting station assignment or of a change in an existing broadcasting station assignment shall cease to have any effect if, within the period specified in paragraph 2 of this Section F, the supplementary information shall not have been supplied.

(c) Any notification, including a notification contained in the Initial or Supplementary Broadcasting Station Assignment List, with respect to which basic and supplementary information has been supplied in the form set forth in paragraph 2 of this Section F within the time limits specified in this Agreement shall cease to have any effect if within two years after the date when the supplementary information is received, the new broadcasting station shall not have actually commenced operation or if the change shall not have actually been consummated. In special cases arising from unusual

circumstances, the effect of such a notification may be extended for successive periods of six months upon notice to all other Contracting Governments within the period of effectiveness of the notification in question. Said notice must include the details of the circumstances which the notifying Government may consider to justify such extension.

(d) Except as may be otherwise specifically provided in this Agreement, changes in power, antenna characteristics or location of an existing broadcasting station may be made at any time, provided protection to all existing broadcasting stations at the time of the change is in accordance with the provisions of Appendix B of Annex 2, provided, however, that it shall not be obligatory to provide greater protection than that previously accepted and in force immediately preceding the change.

Any notification of change in an existing broadcasting station which involves a change in frequency is in effect a deletion of the previous assignment (except as provided for in paragraph 8 (e) of this Section F) and the simultaneous notification of a new assignment, which notification shall be accorded only such priority as would result from the notification of a new broadcasting station assignment.

(e) Any notification of a deletion of an existing broadcasting station assignment shall be deemed to be an abandonment by the notifying Government of any rights it may have with respect to such assignment unless, simultaneously with notification of the deletion, due notification of a new broadcasting station assignment on the same frequency be made which is, in effect, a substitution for the deleted assignment and does not result in interference to existing broadcasting stations in other countries in excess of that previously caused by the broadcasting station whose assignment is deleted.

9. Regional Notifications

The regional notifications made in accordance with the provisions of this Agreement shall be made independently of and in addition to those which, under current practice, are sent to the International Telecommunication Union.

G. Settlement of Differences

Contracting Governments may settle their differences on questions relating to the interpretation or execution of this Agreement through diplomatic channels or by another method mutually agreed upon. If no such method of settlement is adopted, the difference shall, upon request of any party thereto, be submitted for settlement in accordance with the procedure established in Part II of Annex 1.

H. Ratification, Adherence and Execution

1. Ratification

(a) This Agreement shall be subject to ratification by each of the signatory Governments.

(b) Each instrument of ratification shall be deposited, as soon as possible, in the archives of the Government of Canada. The said Government shall, through diplomatic channels, notify the other Contracting and Signatory Governments, the Secretary General of the International Telecommunication Union, and the Agency or Government performing the notification exchange function, of the deposit of each instrument of ratification as soon as it is received, and shall forward to each of them an authentic copy of each such instrument.

2. Adherence

(a) The Government of any country in the North American Region not a signatory of this Agreement, may adhere to it at any time, and shall thereupon become a Contracting Government.

(b) Each instrument of adherence shall be deposited in the archives of the Government of Canada. The said Government shall, through diplomatic channels, promptly notify the other Contracting and Signatory Governments, the Secretary General of the International Telecommunication Union, and the Agency or Government performing the notification exchange function, of the deposit of each instrument of adherence and shall forward to each of them an authentic copy of each such instrument.

3. Execution

The Contracting Governments undertake to abide by the provisions of this Agreement and to take the necessary measures to impose the observance of the said provisions upon the private and other operating agencies recognized or authorized by them to establish and operate broadcasting stations within their respective countries.

I. Entry into Force, Term and Denunciation of the Agreement

1. Entry into Force

(a) This Agreement shall enter into force when it shall have been ratified or adhered to by the Governments of at least three of the following four countries: Canada, Cuba, Mexico and the United States of America. The date of entry into force of this Agreement shall be the fifteenth day after the date on which the third of such instruments of ratification or adherence shall have been deposited.

(b) This Agreement shall be valid only as between such Governments as shall have deposited their instruments of ratification or adherence.

2. Term

This Agreement shall remain in effect for a period of five years after the date of its entry into force. Nevertheless, if, upon the expiration of the said period, a new agreement shall not have entered into force, this Agreement shall remain in full force and effect until the date of entry into force of a new agreement.

3. Denunciation

Each Contracting Government shall have the right to denounce this Agreement, by an instrument of denunciation addressed through diplomatic channels to the Government of Canada. The Government of Canada shall announce the denunciations through diplomatic channels to all the other Contracting and Signatory Governments, the Secretary General of the International Telecommunication Union, and the Agency or Government performing the notification exchange function. The denunciation shall take effect one year after the date on which the instrument of denunciation is received by the Government of Canada at which time the Government denouncing the Agreement shall cease to be a Contracting Government. This Agreement shall remain in force between the Contracting Governments.

IN WITNESS WHEREOF, the respective plenipotentiaries have signed this Agreement, in the English, Spanish and French languages, in a single copy which shall be deposited in the archives of the Government of Canada. The texts in each language shall be equally valid. An authentic copy thereof shall be forwarded by the Government of Canada to the Government of each country in the North American Region, to the Secretary General of the International Telecommunication Union and to the Agency performing the notification exchange function.

DONE at Washington, D.C., this fifteenth day of November, 1950.

For the United Kingdom of Great Britain and Northern Ireland for the Territories in the North American Region (Bahama Islands and Jamaica):

A D HODGSON

K. R. INGRAHAM.

For Canada:

C. P. EDWARDS.

For Cuba:

JOSE R. GUTIERREZ

JOSÉ J. SENTMANAT

R. SARABASA.

A. MARTI

NICOLÁS MENDOZA

For the Dominican Republic:

MIGUEL A. HERRERA

For the United States of America:

ROSEL H HYDE

JOHN S. CROSS

ANNEX I

GENERAL REGULATIONS

PART I

CONFERENCES

A. Date of and Invitation to Conferences, Circulation of Proposals

1. Six months before the date of a Plenipotentiary or Administrative Conference the host Government shall send invitations to the Governments of the countries in the North American Region. International organizations having an interest in the subject matter of the Agreement may also be invited in accordance with the provisions of this Annex.

2. Not later than four months before the opening of the Conference, the Governments shall send their replies to the invitations to the host Government, and their proposals for the work of the Conference to the agency or Government performing the notification exchange function. The said agency or Government shall distribute the proposals as soon as possible to all other interested Governments.

3. The host Government may invite international organizations having an interest in the subject matter of the Agreement to send observers and to participate in the Conference in an advisory capacity, provided prior notice of intention to extend each such invitation is first given to the Contracting Governments and a majority thereof do not object within a period of forty-five days.

B. Voting at Conferences

1. At Plenipotentiary Conferences each participating Government shall have one vote.

2. At Administrative Conferences each Contracting Government shall have one vote.

3. Representation of the Territories of the United Kingdom of Great Britain and Northern Ireland in the North American Region (Bahama Islands and Jamaica) shall be by a single delegation which shall have one vote.

C. Definitions

For the purpose of this Agreement, the following definitions are adopted:

1. Administration

Any department or service of a Government responsible for implementing the obligations undertaken in the North American Regional Broadcasting Agreement.

2. Delegation

The totality of the delegates, representatives and experts of the same country. Each delegation may include one or more attaches and one or more interpreters. Each Government may make up its delegation as it wishes. In particular, it may include in its delegation, in the capacity of delegates or of advisers, representatives of broadcasting agencies and other enterprises interested in the broadcasting field which are recognized as such by their respective Governments.

3. Delegate

A person duly accredited by a Government to represent it at a Plenipotentiary or Administrative Conference.

4. Representative

A person representing a recognized branch of the telecommunication or electronic industries relating to the broadcasting services, authorized by the Government of his country to be present at a Plenipotentiary or Administrative Conference.

5. Expert

A person representing a national scientific or industrial organization authorized by a participating Government to be present at a Plenipotentiary or Administrative Conference.

6. Observer

A person designated by a non-participating Government to attend, or a person representing an international organization at a Plenipotentiary or Administrative Conference.

D. Languages

1. The official languages of the Conference shall be English, Spanish and French. The texts of all final agreements and resolutions shall be issued in these three languages and shall be equally valid.

2. Each Conference shall determine its working languages. For the debates of the Conference an efficient system of reciprocal interpretation from and into the approved working languages shall be used. The texts of the documents of the Conference, other than those referred to in paragraph 1 above, shall be issued in the working languages agreed upon by the Conference. The host Government shall take all necessary steps to ensure compliance with these provisions.

E. Rules of Internal Procedure at Conferences

1. Officials of the Conferences

(a) Provisional Chairman

The host Government shall designate the provisional chairman, who shall exercise his functions until the Conference elects its permanent chairman.

(b) Permanent Chairman

The permanent chairman shall be elected by the vote of a majority of the delegations present at the Conference.

(c) Vice-Chairmen

The order of precedence of the delegations with respect to the naming of vice-chairmen shall be determined at the first meeting of the Plenary Assembly by drawing lots and all the chairmen of the delegations or the persons designated by them shall be vice-chairmen and shall replace the chairman in this order in his absence.

(d) Secretary General

The secretary general of the Conference shall be appointed by the host Government and his appointment shall be confirmed by the Plenary Assembly.

2. Functions of Chairman and Vice-Chairmen

(a) Chairman

The chairman shall direct the work of the Conference and shall preside over the activities and meetings thereof in accordance with these Rules of Internal Procedure and with generally accepted parliamentary practice.

(b) Vice-Chairmen

In case of the absence of the chairman, the vice-chairmen, in order of precedence established by Paragraph 1. (c), shall assume and exercise his functions.

3. Functions of Secretary General and Organization of Secretariat

(a) Secretary General

The secretary general shall have, inter alia, the following functions:

(1) To organize, direct and co-ordinate the work of the personnel appointed to the secretariat;

(2) To receive and distribute the official correspondence of the Conference;

(3) To prepare and distribute the minutes of the meetings, the reports and documents of the Conference, and in accordance with the chairman's instructions, to draft the general as well as the special orders of the day.

(b) Secretariat

The host Government shall make the necessary arrangements for the Conference to be provided with a secretariat which shall be under the direction of the secretary general.

4. Committees

Committees shall be organized for the most efficient functioning of the Conference, the adequate study of the subjects of its program and the facilitation of its tasks. The committees shall submit the results of their work to the Plenary Assembly of the Conference for approval. The number and functions of committees may be changed in order to adapt them to the program, but in principle the following represent those to be established:

1. Steering Committee
2. Credentials Committee
3. Juridical Committee
4. Technical Committee
5. Drafting Committee
6. Finance Committee

5. Members of Committees

(a) The steering Committee shall be composed of the chairmen of delegations or their designees and shall be presided over by the chairman of the Conference.

(b) The other committees shall be composed of members of delegations in accordance with the appointments made by the chairmen of their respective delegations.

(c) The committees may invite, with the approval of the Steering Committee, individuals, or organizations not represented at the Conference, to participate in their activities to the extent that their advice or statements are considered useful.

6. Organization of the Committees

(a) The Plenary Assembly shall designate the chairmen of committees. The committees shall designate their vice-chairmen and reporters.

(b) Each committee may establish whatever sub-committees it deems advisable and designate their chairmen. Such sub-committees shall submit the results of their work to the committee.

(c) Each sub-committee may establish whatever working groups it deems advisable and such working groups shall submit the results of their work to the sub-committee.

7. Functions of the Committees

(a) The Steering Committee shall assign the work and co-ordinate the activities of the various committees. The work of the Conference shall conform with its decisions unless the Plenary Assembly decides otherwise.

(b) The Credentials Committee shall examine the credentials presented by the delegations to verify whether they are in order.

(c) The Juridical Committee shall study all matters of a legal nature assigned to it.

(d) The Technical Committee shall study all matters of a technical nature assigned to it.

(e) The Drafting Committee shall prepare the final draft of the agreements and resolutions of the Conference.

(f) The Finance Committee shall study all matters relating to the financing of the Conference assigned to it.

8. Quorum and Voting

(a) In order to have a quorum at the meetings of the Plenary Assembly of the Conference, a majority of the delegations accredited to the Conference and entitled to a vote must be present. Should a majority of these delegations not be present at a meeting of the Plenary Assembly, the meeting shall be adjourned for at least a period of twenty-four hours, following which it shall proceed even if a quorum is not present.

(b) The provisions of subparagraph (a) of this paragraph shall apply to committees and sub-committees except that the period of time which shall be allowed to elapse shall be at least one hour.

(c) Proposals or amendments shall be adopted only by a majority vote of the delegations present and voting. In case of a tie, they shall be considered rejected. In determining the number of votes required for a majority, abstentions shall not be taken into account.

However, if the number of abstentions exceeds one-half of the number of delegations present, the measure voted upon shall be reconsidered at a subsequent meeting, at which time the decision shall be made by a majority vote of the delegations present and voting, regardless of the number of abstentions.

(d) A duly accredited delegation may delegate its right to vote to another duly accredited delegation for one or more meetings which it is unable to attend. In no case may a delegation have more than one vote by proxy.

(e) The delegations shall be seated in alphabetical order based upon the language of the host country, and in case of a roll call vote shall be called upon in that order.

(f) The vote of each delegation at the meetings of the Plenary Assembly and at committee meetings shall be indicated by the chairman of the delegation or by a person authorized to act on his behalf.

(g) Voting shall normally be by a show of hands except that, if requested by any delegation, it shall be by roll call.

9. Meetings of the Plenary Assembly

(a) The inaugural meeting of the Conference shall be held on the day and at the place designated by the host Government, and the remaining meetings shall be held on the dates determined by the Conference.

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(b) When a meeting of the Plenary Assembly is held, the minutes of the preceding meeting shall be submitted for its consideration and approval unless the delegations shall decide to defer such consideration to a later meeting. The minutes of the closing meeting of the Plenary Assembly shall be approved by the Chairman.

(c) The minutes shall be drafted in the working languages of the Conference. Opinions and proposals, with the bases therefor, together with a summary report of the discussions, shall appear in brief form in the minutes. However, any participant may request the inclusion at length in the minutes of the statements which he has made at a meeting, but in this event he shall furnish the Secretariat with the corresponding text as soon as possible.

(d) The minutes shall be signed by the Chairman and the Secretary General.

(e) The meetings of the Plenary Assembly shall be open to the public. Upon the motion of any delegation any meeting may, by a majority vote, be declared closed to the public. This motion shall have preference and shall not be subject to discussion.

(f) The Agenda of any meeting may be altered by a majority vote.

(g) Amendments shall be submitted to discussion and put to the vote before the motion which they seek to amend.

(h) At the closing meeting of the Plenary Assembly, the final documents adopted by the Conference shall be submitted for signature to the delegates provided with the necessary powers.

10. Meetings of Committees

(a) In so far as possible, the procedure for the meetings of the Plenary Assembly shall be observed at the committee meetings.

(b) The minutes of the committee meetings shall be signed by their respective chairmen and reporters.

PART II

SETTLEMENT OF DIFFERENCES

1. Any difference between two or more Contracting Governments on questions relating to the interpretation or execution of this Agreement, not otherwise settled in accordance with Part III, Section G, of this Agreement, shall be deemed to be a dispute and may, upon agreement by the parties concerned, be submitted to: (a) the International Court of Justice or (b) a single arbitrator chosen by agreement between the parties concerned.

2. In the absence of such agreement, the dispute shall be submitted to arbitration, at the request of a party thereto, in the manner hereinafter set forth.

(a) The party requesting such arbitration shall initiate the arbitration procedure by transmitting through diplomatic channels to the other party or parties to the dispute a notice of the submission of the dispute to arbitration.

(b) Within two months after such notice has been received by the other party or parties to the dispute, the parties shall agree whether the arbitration is to be by individuals or by Governments. If the parties have not been able to agree upon this point within this period of time, the arbitration shall be by Governments.

(c) (1) Within two months from the date of determination whether arbitration is to be by individuals or by Governments, each of the parties to the dispute shall appoint an arbitrator. If a party to the dispute fails to appoint an arbitrator within such period, the arbitrator or arbitrators appointed by the other party or parties, and such additional arbitrator or arbitrators as may be appointed in accordance with subparagraph (d), shall decide the dispute.

(2) If arbitration is to be by individuals the arbitrators shall be nationals of countries in the North American Region but shall not be nationals of any of the parties to the dispute, nor have their domicile in a country the Government of which is a party to the dispute, nor may they be employees of such Governments.

(3) If arbitration is to be by Governments, the arbitrators shall be chosen from among Governments of countries in the North American Region not parties to the dispute.

(d) (1) The arbitrator or arbitrators thus appointed shall choose one additional arbitrator, or two additional arbitrators if this is necessary to make the total number of arbitrators an odd number. Such arbitrator or arbitrators must fulfill the conditions indicated in subparagraph (c) (2) or (3) above, as the case may be, and, if an individual, or individuals, must not be of the same nationality as any of the arbitrators appointed by the parties to the dispute.

(2) Failing an agreement between the arbitrators on the choice of an additional arbitrator or arbitrators within one month after their appointment, the arbitrators already appointed shall, by a drawing of lots, select the additional arbitrator or arbitrators from among Governments or individuals, as the case may be, which the arbitrators already appointed shall have nominated.

(3) If there are insufficient countries in the North American Region to provide arbitrators fulfilling the conditions indicated above, the arbitrators, including both those first appointed and the additional arbitrator or arbitrators, may be chosen from individuals or Governments, as the case may be, of other American countries, but only to the extent that there are insufficient countries in the North American Region and provided such individuals or Governments otherwise fulfill the conditions indicated above.

3. The Contracting Governments shall furnish all information relative to the dispute which the International Court of Justice or the arbitrators may require.

4. (a) If a dispute is submitted to the International Court of Justice, it shall be dealt with in accordance with the rules of procedure and practice of that Court.

(b) The arbitrator or arbitrators shall be free to decide upon the procedure to be followed, subject to the provisions of this part of Annex 1.

5. All decisions in disputes submitted to more than one arbitrator shall be by majority vote.

6. A decision resulting from such submission to the International Court of Justice or to arbitration by any of the methods above set forth shall be final and binding on all parties to the dispute and it shall not be subject to review by any other agency.

7. Each party shall bear the expenses it shall have incurred in preparation of its case. The costs of arbitration other than those incurred by the parties themselves shall be equally divided between the parties.

ANNEX 2

BROADCASTING REGULATIONS

A. Definitions

For the purposes of this Agreement:

1. Broadcasting Band

The term "broadcasting band" means the band of frequencies extending from 535 to 1605 kc/s. The Contracting Governments agree that this band of frequencies shall be allocated exclusively to broadcasting in the North American Region.

2. Power

The term "power", when used with reference to a broadcasting station, means the unmodulated radio frequency power, expressed in watts or kilowatts, supplied to the antenna system.

3. Radiated Field Intensity

The radiated field intensity in a specified direction is the unattenuated field expressed in millivolts per meter at one statute mile (or its international equivalent in kilometers).

4. 10% (or 50%) Night-time Sky Wave Field Intensity

The term "10% (or 50%) night-time sky wave field intensity" means values as computed from the 10% and 50% curves of Appendix E, taking into account the radiated field intensity in the pertinent directions.

5. Spurious Radiations

Spurious radiations from a broadcasting transmitter are the radio frequency harmonics, audio frequency harmonics, or any other emission or modulation products which are not necessary in order to render the desired broadcasting service and may result in the generation of steady state or transient components capable of producing harmful interference.

6. Day-time and Night-time Operation

(a) Day-time operation in general means operation between the times of local sunrise and local sunset at the transmitter location of the station; however, in particular cases other hours for day-time operation may be established, either in the present Agreement or in bilateral agreements, between the respective Contracting Governments, taking into account the location of the station it is intended to protect.

(b) Night-time operation is operation at any other time.

(c) The times of sunrise and sunset, to the nearest quarter hour, on the fifteenth day of a calendar month shall be considered to be the times of sunrise and sunset for all the days of that month.

7. Synchronous Operation

Synchronous operation is the operation of two or more broadcasting stations, broadcasting the same program simultaneously on the same assigned frequency with an actual carrier frequency difference of not more than 0.1 cycle per second.

B. Operation of Broadcasting Stations

1. Assignment of Carrier Frequencies

The carrier frequencies assigned to broadcasting stations shall begin at 540 kc/s and be in successive steps of 10 kc/s to and including 1600 kc/s. No intermediate frequency shall be assigned as the carrier frequency of any broadcasting station.

2. Band-Width of Emissions

The band-width of emissions is not fixed, provided that objectionable interference is not caused.

3. Frequency Tolerance and Stability

The operating frequency of each broadcasting station shall be maintained to within 20 cycles per second of the assigned frequency and shall not vary perceptibly over short periods of time under all conditions of operation.

4. Elimination of Spurious Radiations

In the event harmful interference results from spurious radiation, the Government of the country in which the station causing such interference is located shall adopt the necessary technical measures for its elimination.

5. Determination of Power

The power of a station shall be determined by taking the product of the square of the current at the point of input to the antenna system and the total resistance at that point.

6. Modulation

The form of modulation for broadcasting stations is amplitude modulation of an unsuppressed carrier of constant amplitude yielding two symmetrical side bands.

C. Classes of Broadcasting Stations

1. Class I Station

A Class I station is a broadcasting station designed to provide broadcasting service over extensive areas by both ground wave and sky wave signals.

(a) Class I-A Station

A Class I-A station is a Class I station operating on a clear channel with respect to which channel a Contracting Government has a priority listed in Table I of Appendix A. The power is generally 50 kW or more. Permissible interference from another station on the same channel in another country is determined at the boundary of the country in which the Class I-A station is located in accordance with Appendix B, except as may otherwise be specifically provided in the Annexes to this Agreement.

(b) Class I-B Station

A Class I-B station is a Class I station operating on a clear channel with the station priority specified in Table II of Apendix A. The power is 10, 25 or 50 kW. Permissible interference from another station on the same channel in another country is determined at a specified field intensity contour of the Class I-B station, in accordance with Appendix B, except as may otherwise be specifically provided in the Annexes to this Agreement.

(c) Class I-C Station

A Class I-C station is a Class I station operating on a clear or regional channel with the station priority specified in Table III of Appendix A. The power is 10, 15, 25 or 50 kW as specified in Annex 3. It operates so as to render broadcasting service by means of both sky wave and ground wave signals. Permissible interference from another station on the same channel in another country is determined at a geographical limit specified in Appendix B, except as may otherwise be specifically provided in this Agreement.

(d) Class I-D Station

A Class I-D station is a Class I station operating on a clear or regional channel with the station priority specified in Table IV of Appendix A. The power is 10, 15 or 25 kW as specified in Annex 3. It operates so as to render broadcasting service by means of both sky wave and ground wave signals. Permissible interference from another station on the same channel in another country is determined at a geographical limit specified in Appendix B, except as may otherwise be specifically provided in this Agreement.

2. Class II Station

A Class II station is a broadcasting station, other than a Class I station, operating on a clear channel and designed for broadcasting service by means of ground wave signals only. The power is 0.25, 0.5, 1, 2.5, 5, 10, 15, 25 or 50 kW. Permissible interference from another station on the same channel in another country is determined at a ground wave field intensity contour, in accordance with Appendix B.

3. Class III Station

A Class III station is a broadcasting station operating on a regional channel and designed for broadcasting service by means of ground wave signals only. The power is 0.5, 1, 2.5 or 5 kW*. Permissible interference

* In certain cases listed in Annex 3, Class III stations are established in Cuba with power of 10 kW.

from another station on the same channel in another country is determined at a ground wave field intensity contour, in accordance with Appendix B.

4. Class IV Station

A Class IV station is a broadcasting station operating generally on a local channel and designed for broadcasting service by means of ground wave signals only. The power is 0.1 or 0.25 kW.* Permissible interference from other stations on the same local channel in another country is determined at a ground wave field intensity contour, in accordance with Appendix B.

D. Allocation of Broadcasting Stations to Broadcasting Channels

1. Clear Channels

(a) Each clear channel shall be used with due regard to the priority in use as set forth in Appendix A.

(b) Class II stations, in addition to those listed in Annex 3, may be assigned to clear channels in accordance with the notification procedure prescribed by this Agreement, and in accordance with the provisions of this Annex and of Annex 3.

2. Regional Channels

(a) Generally, only Class III stations may be assigned to regional channels.

(b) Class I-C and I-D stations may be assigned to specified regional channels in accordance with the priorities established in Tables III and IV of Appendix A.

(c) Where the assignment of a Class III station is impracticable, Class IV stations may be assigned to regional channels, provided that no objectionable interference is caused to existing stations.

(d) Each country may use all regional channels subject to the power limitations and the standards for prevention of objectionable interference set forth in this Agreement.

3. Local Channels

(a) Only Class IV stations may be assigned to local channels.

(b) Each country may use all local channels subject to the power limitations and the standards for prevention of objectionable interference set forth in this Agreement.

E. Investigation of Interference, Coordination of Studies of Propagation Phenomena, and Cooperation for the Solution of Technical Problems

1. Investigation of Interference

When a Contracting Government has reason to believe that interference greater than that permitted by the Agreement is being caused to any broadcasting station under its jurisdiction as the result of the operation

* In certain cases listed in Annex 3, Class IV stations are established in Cuba with powers of 0.5 kW and 1 kW.

of a broadcasting station under the jurisdiction of another Contracting Government, it may request the latter to investigate the situation. On receipt of such a request, the Government to which it is addressed shall order the carrying out of such an investigation, the results of which will be communicated to the Government making the request.

2. Research and Consultative Activities

(a) The Contracting Governments shall consult with each other and prepare and exchange informational reports which will facilitate the effective technical use of the broadcasting band. For this purpose, they shall carry out and coordinate technical research relating to broadcasting.

(b) The Contracting Governments, in matters pertaining to this Section E, shall consult with each other and exchange the information, proposals and reports through their respective agencies or Departments having jurisdiction over technical matters of radio broadcasting. Such agencies or Departments shall communicate their points of view to the corresponding Technical agencies or Departments of all the interested Contracting Governments within the shortest practicable time.

(c) When they deem it appropriate, the Contracting Governments shall prepare and circulate proposals for the revision of the technical standards of these Broadcasting Regulations.

(d) At the suggestion of any one of the Contracting Governments, meetings of the technicians of such Governments may be held, at times and places mutually agreed upon, to discuss proposals for the preparation of the Supplement referred to in Section B of Part III of the Agreement and for the coordination of technical research on radio broadcasting.

3. Standards of Good Engineering Practice

In making field intensity measurements or in carrying out research within their respective countries, each Contracting Government shall be guided by the generally accepted standards of good engineering practice and shall make use of adequate and duly calibrated apparatus.

F. The Notification Exchange Function

1. Agency or Government Performing the Notification Exchange Function

The notification exchange function referred to in Section F of Part III of the Agreement shall be performed by the Inter-American Radio Office (OIR), hereinafter referred to as the Agency, so long as that organization is in a position to perform this function. If, at any time, the Agency shall not be in a position to perform this function, the host Government of the OIR is requested to perform provisionally, in the same manner, said notification exchange function on a cost reimbursement basis, until such time as a different decision may be reached by a conference of the Contracting Governments.

2. Use of Registered Mail

All notifications, objections, and other communications (all of which are hereinafter referred to as communications) made pursuant to Section F of Part III of the Agreement, as well as those made pursuant to this Section F, shall be transmitted by registered mail.

3. Files and Records of the Agency

The Agency shall file in an appropriate manner all such communications received and copies of communications transmitted. It shall establish and maintain an accurate, up to date, and detailed system of registration records with respect to all such communications. Such records shall include a serial number based on the order of receipt, the date of such receipt, the registered mail number, the name of the Government or country sending the communication, a brief description of its nature and contents, the date on which the Agency acknowledged receipt to the sending Government, the date or dates on which the Agency transmitted the communication to other Governments, and appropriate cross-references to notifications, objections, or other communications related to the communication thus recorded. All communications sent by the Agency shall be recorded in the same manner.

4. Acknowledgement of Receipt and Transmittal of Communications

Not later than on the next business day after the receipt of any such communication, the Agency shall

(a) advise the sending Government by letter of such receipt, the date and hour thereof, the serial number assigned thereto, and such other information as may be necessary to identify the communication in the records and files of the Agency, and

(b) transmit a copy of such communication, when it deals with notifications or objections thereto, to each of the Governments of the North American Region, and in other cases only to the interested Contracting Governments. In each case a copy of the Agency's acknowledgement of receipt to the sending Government shall be attached.

APPENDIX A

TABLES OF PRIORITIES

TABLE I * — CLASS I-A PRIORITIES

Channel kc/s	Country having 1-A Priority
540	Canada
640	USA
650	USA
660	USA
670	USA
690	Canada
700	USA
720	USA
730	Mexico
740	Canada
750	USA
760	USA
770	USA
780	USA
800	Mexico
820	USA
830	USA
840	USA
860	Canada
870	USA
880	USA
890	USA
900	Mexico
990	Canada
1010	Canada
1020	USA
1030	USA
1040	USA
1050	Mexico
1100	USA
1120	USA
1160	USA
1180	USA
1200	USA
1210	USA
1220	Mexico
1540	Bahamas
1570	Mexico
1580	Canada

NOTE The protections to be accorded to channels listed herein are those specified in Appendix B except as otherwise specified in this Agreement. The existing assignments on the channels listed herein may be changed and additional assignments on such channels may be made by the country having the Class I-A priority, provided that the Class I and II stations in other countries on such channels listed in Annex 3 are accorded the protection for such Class I and II stations specified in this Agreement and provided that requirements of this Agreement with respect to protection of stations on adjacent channels are met.

* The Mexican priorities indicated are those which existed under the North American Regional Broadcasting Agreement, Habana (1937), and the North American Regional Broadcasting Interim Agreement (Modus Vivendi), Washington, D.C., (1946), and are included in this document, as a matter of information only, in the absence of Mexico as a Government signatory to this Agreement.

TABLE II* CLASS I-B PRIORITIES

Channel kc/s	Station	Country having I-B Priorities	Antenna	Schedule	Notes
640	S. John's, Nfld.	Canada	ND	U	1)
680	S. Francisco, Calif.	USA	ND	U	
710	New York, N.Y.	USA	DA	U	
	Seattle, Wash.	USA	DA	U	
810	S. Francisco, Calif.	USA	DA	U	
	Schenectady, N.Y.	USA	ND	U	
850	Denver, Colo.	USA	ND	U	
940	Montreal, Que.	Canada	ND	U	
	Mexico, D.F.	Mexico		U	
1000	Mexico, D.F.	Mexico	DA	U	
	Chicago, Ill.	USA	DA	U	
	Seattle, Wash.	USA	DA	U	
1010	Habana	Cuba	DA	U	
1060	Mexico, D.F.	Mexico	DA	U	
	Philadelphia, Pa.	USA	DA	U	
1070	Sackville, N.B.	Canada	ND	U	2)
	Los Angeles, Calif.	USA	ND	U	
1080	Hartford, Conn.	USA	DA	U	
	Dallas, Texas	USA	DA	U	
1090	Rosarito, B. Cfa.	Mexico	DA	U	
	Arkansas	USA	DA	U	3)
	Baltimore, Md.	USA	DA	U	
1110	Omaha, Neb.	USA	DA	U	
	Charlotte, N.C.	USA	DA	U	
1130	Vancouver, B.C.	Canada	DA	U	
	Shreveport, La.	USA	DA	U	
	New York, N.Y.	USA	DA	U	
1140	Nuevo Laredo, Tam.	Mexico	DA	U	
	Richmond, Va.	USA	DA	U	
1170	Tulsa, Okla.	USA	DA	U	
	Wheeling, W. Va.	USA	DA	U	
1190	Guadalajara, Jal.	Mexico	DA	U	
	Fort Wayne, Ind.	USA	DA	U	
	Portland, Ore.	USA	DA	U	
1500	Washington, D.C.	USA	DA	U	
	S. Paul, Minn.	USA	DA	U	
1510	Nashville, Tenn.	USA	DA	U	
	Spokane, Wash.	USA	DA	U	
1520	Buffalo, N.Y.	USA	DA	U	
	Oklahoma City, Okla.	USA	DA	U	
1530	Sacramento, Calif.	USA	DA	U	
	Cincinnati, Ohio	USA	DA	U	4)
1540	Waterloo, Ia.	USA	DA	U	
1550	Windsor, Ont.	Canada	DA	U	
	Mexico, D.F.	Mexico		U	
1560	Las Villas	Cuba	DA	U	
	New York, N.Y.	USA	DA	U	5)
	Bakersfield, Calif.	USA	DA	U	

* The Mexican priorities indicated are those which existed under the North American Regional Broadcasting Agreement, Habana (1937), and the North American Regional Broadcasting Interim Agreement (Modus Vivendi), Washington, D.C., (1946), and are included in this document, as a matter of information only, in the absence of Mexico as a Government signatory to this Agreement.

Notes: 1) In agreeing to the Class I-B priority for a station in Newfoundland on 640 kc/s, the United States of America reserves the right for full use of the Class I-A priority on this broadcasting channel for a station on the Pacific Coast.

2) The Canadian Class I-B assignment on 1070 kc/s is subject to excessive local receiver oscillator interference due to nearby assignments on 610 kc/s and 630 kc/s. The existence of this problem is recognized and it is agreed that Canada and the United States will negotiate bilaterally for a possible change in frequency for this assignment.

3) Exact city to be subsequently notified by the United States of America. Interference to Habana is not to exceed that permissible under past Class I-B notification.

4) Directional antenna is to be used after local sunset at Sacramento, Calif.

5) The radiation toward Las Villas from the Class I-B station in New York City is not to exceed the equivalent of 10 kW from an omnidirectional antenna. Radiation from the Las Villas Class I-B station toward the service area of the Class I-B station in New York City is not to exceed the equivalent of 1 kW from an omnidirectional antenna.

TABLE III

CLASS I-C PRIORITIES

Channel kc/s	Station	Country having I-C Priorities	Antenna	Schedule	Notes
550	Habana	Cuba	DA	U	
620	Ciudad Trujillo	Rep.Dom.	ND	U	
640	S. Clara, L.V.	Cuba	DA	U	
690	Habana	Cuba	DA	U	
860	Habana	Cuba	DA	U	

TABLE IV

CLASS I-D PRIORITIES

Channel kc/s	Station	Country having I-D Priorities	Antenna	Schedule	Notes
570	S. Clara, L.V.	Cuba	DA	U	
590	Habana	Cuba	DA	U	
630	Habana	Cuba	DA	U	
740	Holguin, Ote.	Cuba	DA	U	
920	Camaguey, Cam.	Cuba	DA	U	
950	Habana	Cuba	DA	U	
980	Habana	Cuba	DA	U	

APPENDIX B

PROTECTION RULES FOR CO-CHANNEL BROADCASTING STATIONS

General Rules for protection from objectionable co-channel interference. (Special provisions, if any, are contained in Tables I, II, III and IV of Appendix A and in Annex 3.)

A. General Table

Class of Station	Class of Channel	Boundary or Signal intensity contour at which interfering signal is determined (1)		Permissible interfering signal	
		Day	Night	Day	Night (2)
I-A	Clear	Boundary of Country having priority		5 uV/m	25 uV/m (3)
I-B	Clear	100 uV/m	500 uV/m 50% sky wave contour	5 uV/m	25 uV/m
I-C	Clear or Regional	200 uV/m	Boundary of Country having priority	10 uV/m	25 uV/m
I-D	Clear or Regional	500 uV/m	Boundary of Country having priority	25 uV/m	50 uV/m
II	Clear	500 uV/m (5)	(4) (5)	25 uV/m (5)	(4) (5)
III	Regional	500 uV/m	(4)	25 uV/m	(4)
IV	Regional	500 uV/m	(7)	25 uV/m	(7)
IV	Local	500 uV/m	(6)	25 uV/m	(6)

Notes:

(1) No broadcasting station need be protected from interference at any point outside the boundary of the country in which such broadcasting station is located.

(2) 10% sky wave field intensity.

(3) In addition to the requirement concerning the permissible interfering signal within the boundary of the country having Class I-A priority, no Class II station in another country is to be assigned for night-time operation within 650 miles of said boundary.

(4) The permissible interfering signal to Class II or Class III stations is based on the existing interference level from all co-channel stations in accordance with Appendix G, Paragraph 3. However, no interfering signal will be considered objectionable if the resulting RSS 10% sky wave signal interference, calculated in accordance with the rule contained in Appendix G, is not greater than 125 uV/m.

(5) Class II stations are not protected from Class I-A stations on the same channel, except as may otherwise be established in Annex 3.

(6) Class IV stations on local channels are protected from sky wave interference at night only by means of the required day-time separation, and the limitation of the maximum power.

(7) The permissible interfering signal to Class IV stations on regional channels is based on the existing interference level from all co-channel stations in accordance with Appendix G, Section 3. However, no interfering signal will be considered objectionable if the resulting RSS 10% sky wave signal interference, calculated in accordance with the rule contained in Appendix G, is not greater than 200 uV/m.

B. Stations Near Boundaries

Where the signal intensity contour at which the permissible interfering signal is determined extends beyond the boundary of the country in which the broadcasting station is located, that section of the boundary within the said contour shall be considered as the location of the said contour.

C. Separate Determination of Interferences

In the case of day-time ground wave interference to all classes of broadcasting stations and in the case of night-time sky wave interference to Class I stations, the permissible interference specified applies separately to each interfering signal, and the presence of interference from existing broadcasting stations in excess of the amount specified will not reduce the requirements for limitation of interference from proposed assignments in other countries.

APPENDIX C

PROTECTION RULES FOR ADJACENT CHANNEL BROADCASTING STATIONS

1. Permissible interference to a desired ground wave signal produced by the interfering ground wave signal of a broacasting station in another country is determined at the 500 uV/m ground wave contour (or at that section of the boundary of the country where the signal exceeds 500 uV/m) on the basis of the following ratios:

Channel separation between stations	Ratio of desired ground wave signal to interfering ground wave signal
10 kc/s	2:1
20 kc/s	1:30

2. Ordinarily adjacent channel sky wave interference is not considered. However, if any Contracting Government contemplates changes which would increase substantially the adjacent channel sky wave interference in the country of another Contracting Government, such proposed changes shall be the subject of bilateral negotiations between the Contracting Governments concerned, before the changes are implemented.

3. For the international application of this Agreement, no broadcasting station will be assigned for operation with less than 40 kc/s separation from a broadcasting station in another country if the areas enclosed by the 25 mV/m ground wave contours of the two broadcasting stations overlap.

APPENDIX D

STANDARDS OF GOOD ENGINEERING PRACTICE

The Contracting Governments agree unanimously that texts for standards of good engineering practice covering the subjects listed immediately following this paragraph, and such others as may be required and which are not included in other parts of this Agreement, should be formulated and adopted for inclusion in this Appendix D and they agree to take steps promptly to formulate and adopt such standards in accordance with the provisions of this Agreement, particularly Part III, Section B Annex 2, and Section E.

1. determination of distances from broadcasting stations to their ground wave contours by field intensity measurements;

2. determination of ground conductivity by field intensity measurements;

3. determination of the presence and degree or absence, of objectionable interference by field intensity measurements or recordings.

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APPENDIX E

10% AND 50% SKY WAVE CURVES

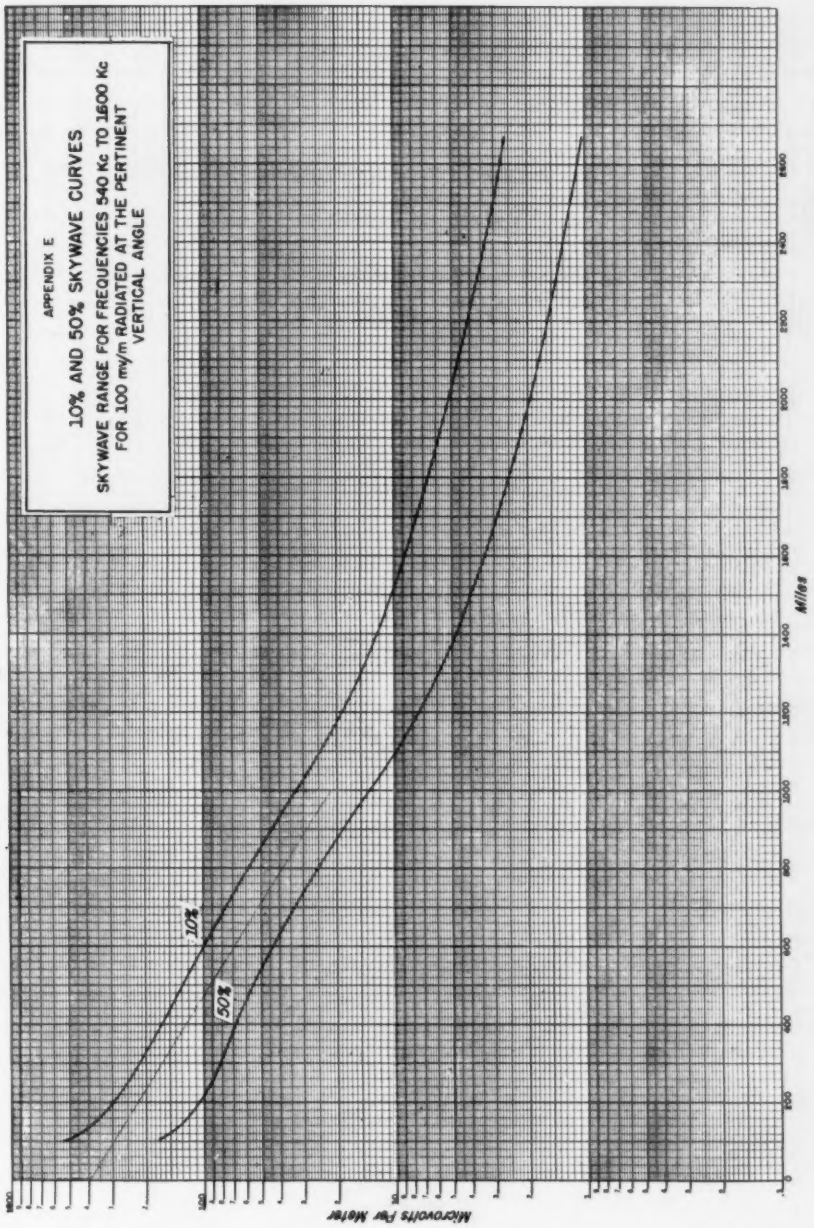
Sky Wave Range for Frequencies 540 kc/s to 1600 kc/s

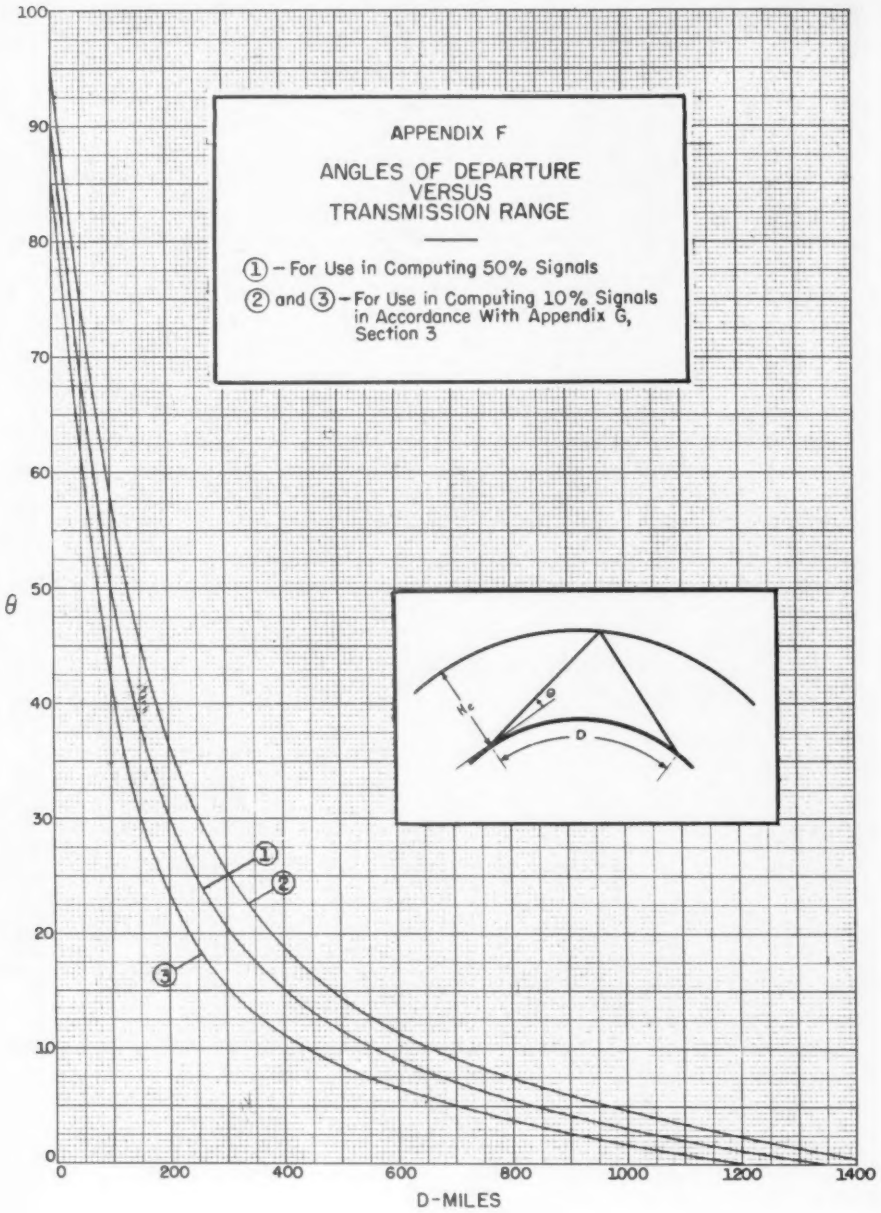
Explanatory Introduction

The curves in this Appendix E, entitled 10% and 50% Sky Wave Curves, are based on a statistical analysis of a limited number of field intensity measurements made over a 3 month period during the spring of 1935. Field intensity values of sky wave signals were recorded over transmission paths varying from 100 to 2500 miles from clear channel stations operating with omnidirectional antennas and powers ranging from 10 to 50 kW. The analysis of the recorded data that resulted in the graphs shown was such that, in the use of the curves, no weight can be given to such factors as frequency, latitude effect, directional effects (i.e. north-south, east-west, etc.), seasonal and annual sun spot variation, possibility of more than one reflection, and other factors affecting sky wave propagation not specifically referred to in the instructions for their use.

In view of the above, it is recognized that the quantitative values of sky wave signal indicated by the graphs are approximations and in general are not expected to agree closely with results which may be obtained by measurements of signals of individual stations over specific paths and periods of time.

Nevertheless, these graphs have the virtue of having provided a satisfactory basis for international rules and standards governing the allocation of broadcasting stations over an extensive period of time. The assignments made under these rules have been carefully evaluated in the light of the considerably extended fund of information and knowledge concerning sky wave propagation characteristics now available, and, while it is possible to predict with much more accuracy the results that may be expected in terms of service and interference, these results do not indicate a need for sweeping changes in the allocation rules and standards. On the contrary, sweeping changes are undesirable. The sky wave graphs and the allocation rules and standards have been found to produce, in general, an acceptable and desirable result and are, therefore, to continue in effect for purposes of international allocation of broadcasting stations as contemplated in this Agreement


APPENDIX E
10% AND 50% SKYWAVE CURVES
SKYWAVE RANGE FOR FREQUENCIES 540 Kc TO 1600 Kc
FOR 100 mv/m RADIATED AT THE PERTINENT
VERTICAL ANGLE
10%
50%
Miles
Microvolts Per Meter


APPENDIX F
ANGLES OF DEPARTURE
VERSUS
TRANSMISSION RANGE
① – For Use in Computing 50% Signals
② and ③ – For Use in Computing 10% Signals in Accordance With Appendix G, Section 3
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100
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80
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60
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600
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APPENDIX G

METHODS OF CALCULATION OF GROUND WAVE AND SKY WAVE SIGNALS AND INTERFERENCE

1. Antenna Performance

For the purpose of notification and for calculating the presence and degree of objectionable interference, in the absence of actual measurements or other more precise information indicating higher radiation values, broadcasting stations of the several classes using omnidirectional antennas shall be assumed to produce a minimum radiated unattenuated field, for one kilowatt of input power to the antenna as follows:

Class of Broadcasting Station	At one Statute Mile
I	225 mV/m
II and III	175 mV/m
IV	150 mV/m

In considering the performance of an antenna for the purpose of calculating the presence and degree of objectionable interference, due cognizance shall be taken of the pattern of the horizontal radiation for day-time operation and of the patterns of the horizontal and vertical radiations for night-time operation in the pertinent directions.

2. Calculation of Ground Wave Signal Intensity

Determination of Distances from Broadcasting Stations to their Field Intensity Contours

(a) The distances from a broadcasting station in actual operation to its ground wave contours may be determined by measurement. These measurements must be made in accordance with the standards of good engineering practice adopted by the Contracting Governments. In case of proposed operation, these distances may be calculated by use of the 20 graphs of Appendix I. These graphs are based upon an unattenuated field intensity of 100 mV/m at one mile and indicate the attenuated field intensities to be expected at varying distances from the transmitter for all frequencies in the broadcasting band and for ground conductivities from 1 to 5000 x 10^{-14} e.m.u.

(b) The conductivity of a given terrain should be determined, where feasible, by measurements of broadcast signals traversing the terrain, in accordance with the standards of good engineering practice adopted by the Contracting Governments. In other cases, conductivity values may be taken from the map of ground conductivities in Appendix H. This map shows the conductivity values throughout the populated areas of the North American Region by general areas of reasonably uniform conductivity. In areas of limited size, or over a particular path, the conductivity may vary widely from the value given.

(c) Where several values of conductivity are presumed to occur along a single propagation path, an acceptable estimate of the distance to

a given contour may be made by using the "Equivalent Distance" method in conjunction with the graphs in Appendix I. This method assumes that a radio wave traversing a non-homogeneous path will follow for each homogeneous interval a curve for a homogeneous earth of that conductivity but that, on passing from one homogeneous interval to another, the effective distance from the transmitter will change abruptly to a value which will maintain continuity in the field intensity. For example, suppose the non-homogeneous path is made up of the following:

$\sigma_1 = 20 \times 10^{-14}$ e.m.u.
from 0 to 20 miles

$\sigma_2 = 5 \times 10^{-14}$ e.m.u.
from 20 to 50 miles

$\sigma_3 = 8 \times 10^{-14}$ e.m.u.
from 50 to 70 miles

Assuming 100 mV/m unattenuated field intensity at 1 mile on a frequency of 1000 kc/s, let it be required to find first, the 0.5 mV/m contour, and second, the field intensity at 70 miles from the transmitter.

There are various ways in which the details of the computation may be carried out. The attached sketches illustrate the graphical construction of a composite propagation curve using, in this instance, a loglinear representation.

With respect to the 0.5 mV/m contour: From the curves for a homogeneous earth, the field intensity at 20 miles with a conductivity of 20 is 3.25 mV/m. On conductivity 5, the field intensity of 3.25 mV/m is produced at 11.4 miles. Thus, the equivalent distance from the antenna at which the conductivity becomes 5 is 11.4 miles or 8.6 miles less than the actual distance. Following the 5 curve, the field intensity of 0.5 mV/m is found at 27.8 miles equivalent distance; so the actual distance to the 0.5 mV/m contour is $27.8 + 8.6 = 36.4$ miles.

With respect to the field intensity at 70 miles from the transmitter; the 5 curve is followed for 30 miles to 41.4 miles. The field intensity at this point is 0.195 mV/m. This field intensity is produced on the 8 curve at 54.5 miles equivalent distance, or 4.5 miles farther than the actual distance. The field intensity at 70 miles will be found on the 8 curve at an equivalent distance of 74.5 miles. This value is 0.092 mV/m.

3. Calculation of Sky Wave Signal Intensity

(a) General Description of Method

(1) Appendix E, "10% and 50% Sky Wave Curves", shows the sky wave signal intensity as a function of distance from a transmitting antenna with a radiated field of 100 mV/m at the pertinent angle for the distance. The pertinent angle θ is the angle described by the curves of Appendix F.

(2) To determine the 50% field at any distance requires, therefore, determination of the radiation at the pertinent angle θ. The pertinent angle θ for 50% values is taken from curve 1 of Appendix F. The ratio of the value of radiated field at that value of angle θ, to 100 mV/m then is used as the multiplying factor for the value of the field read from the 50% curve of Appendix E.

(3) Curves 2 and 3 of Appendix F are used in connection with the determination of the 10% sky wave signal and describe the limits of the pertinent angle for this 10% field. The radiation within these pertinent angles is determined and the highest value indicated is used in computing interference.

(4) Sky wave interference to a broadcasting station from broadcasting stations in synchronous operation shall be calculated as if the synchronous stations were in independent operation

(b) Sky Wave Interference to Ground Wave Service (RSS Rule)

(1) For broadcasting stations on the same channel, sky wave interference to ground wave service is based on a minimum ratio of 20 to 1 desired to undesired field intensity. Thus, the undesired 10% sky wave field multiplied by 20 will give the limitation to the desired signal. To determine the 10% field at any distance requires, therefore, determination of the maximum radiation within the limits of the pertinent angles. The ratio of the value of this maximum radiated field, to 100 mV/m is used as the multiplying factor for the value of the field read from the 10% curve of Appendix E.

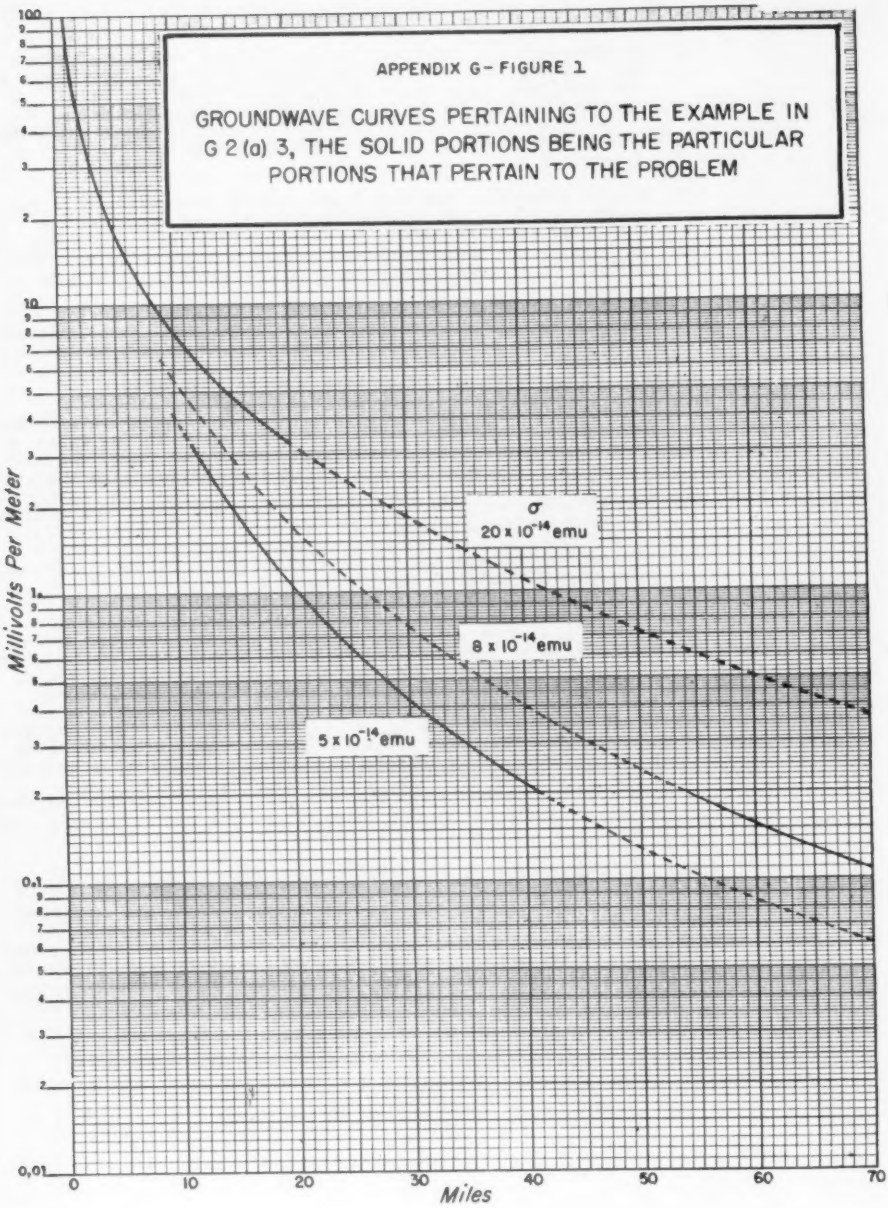
(2) The interference from two or more 10% sky wave signals to a desired ground wave signal is taken to be the root sum square (RSS) value of such interfering field intensities. Calculation is accomplished by considering the signals in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 50% of the RSS value of the higher signals already included. The RSS value will not be considered to be increased when a new interfering signal is added which is less than 50% of the RSS value of interference from existing stations and which is, at the same time, less than the smallest signal included in the RSS value of interference from existing stations.

(c) Sky Wave Interference to Sky Wave Service (Single Signal Rule)

Each interfering sky wave signal is considered without reference to other existing interfering signals. If because of a previous assignment, one interfering signal at a point on the pertinent geographic or 50% sky wave signal intensity contour is in excess of the prescribed value, interfering signals from other countries are nevertheless required to remain below the maximum value prescribed in Appendix B.

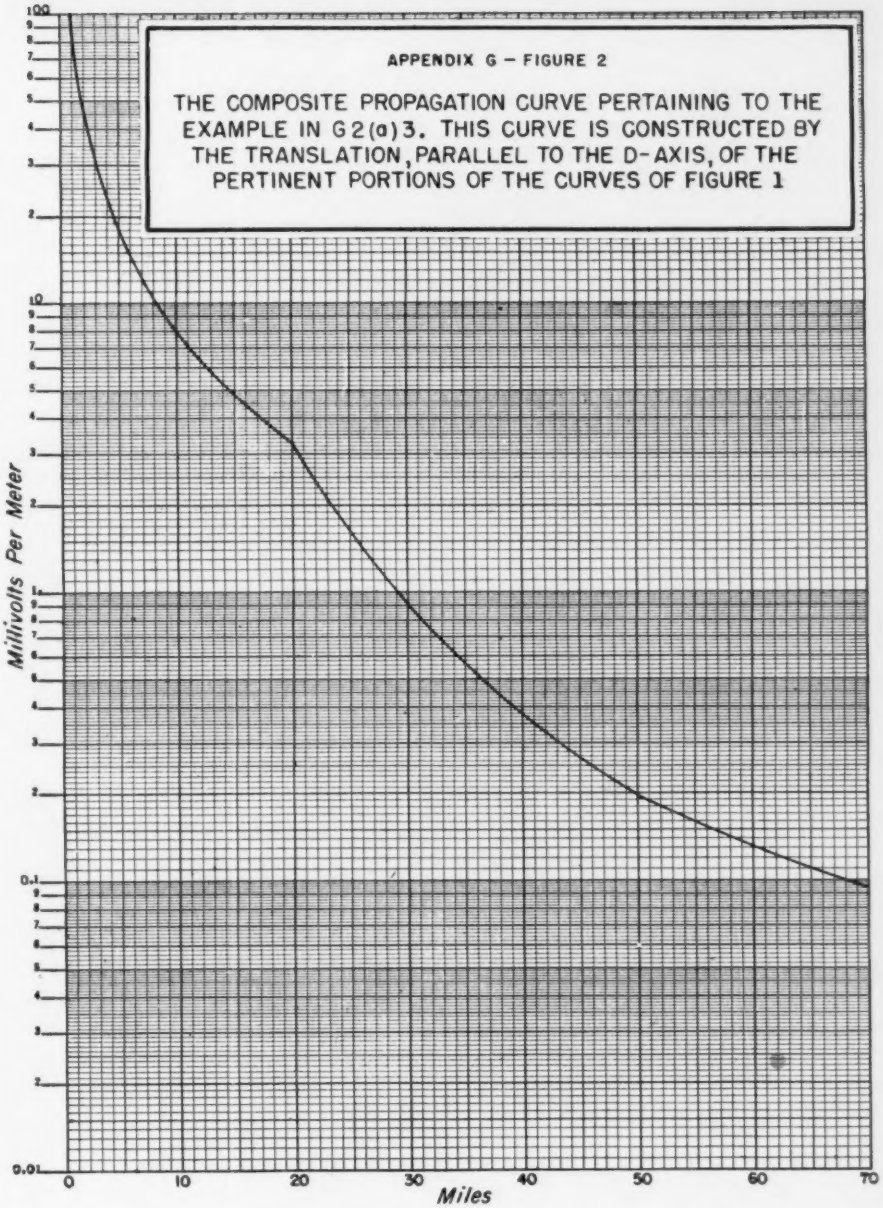
APPENDIX G - FIGURE 1

GROUNDWAVE CURVES PERTAINING TO THE EXAMPLE IN G 2 (a) 3, THE SOLID PORTIONS BEING THE PARTICULAR PORTIONS THAT PERTAIN TO THE PROBLEM



APPENDIX G – FIGURE 2

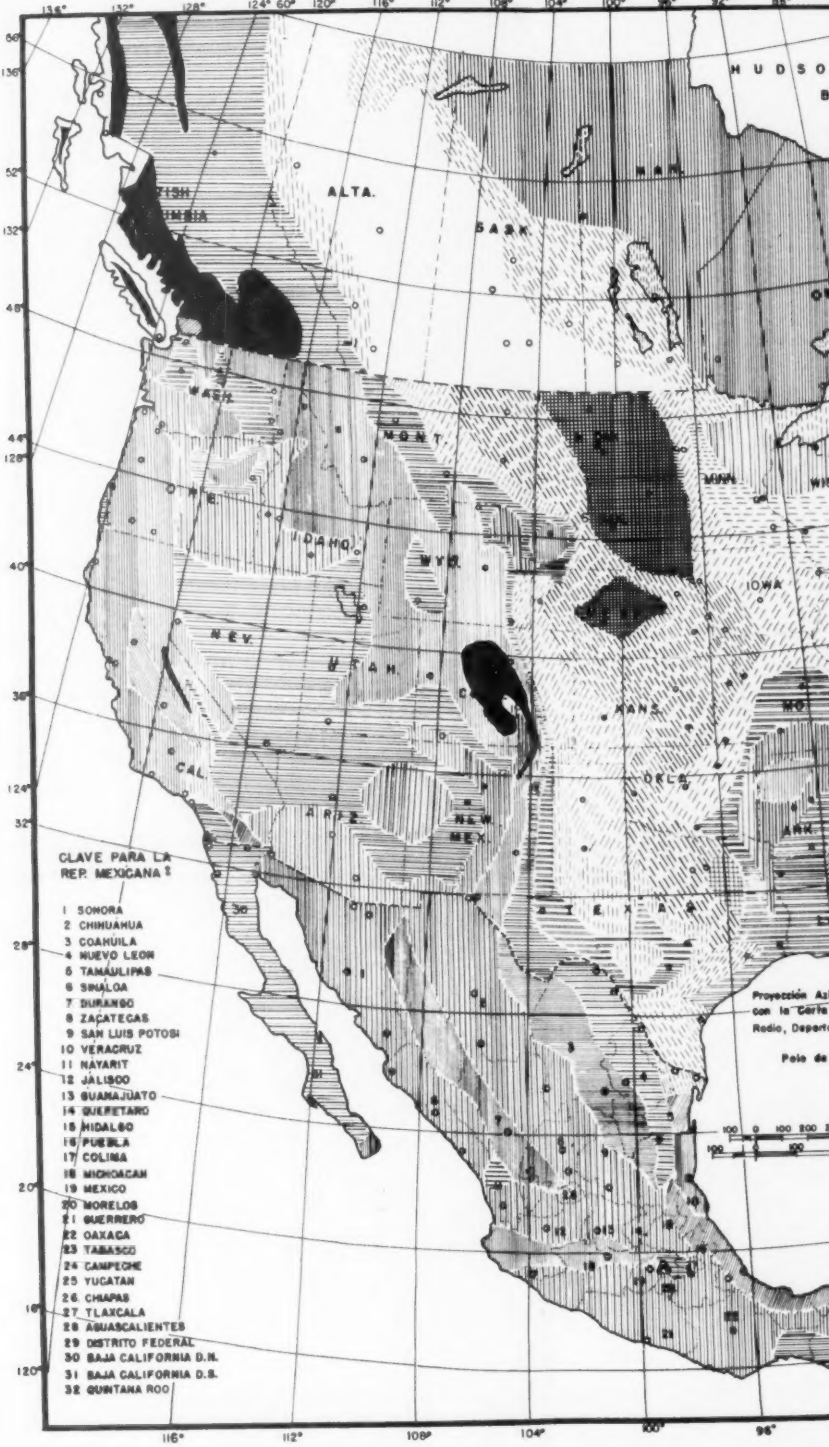
THE COMPOSITE PROPAGATION CURVE PERTAINING TO THE EXAMPLE IN G 2(a) 3. THIS CURVE IS CONSTRUCTED BY THE TRANSLATION, PARALLEL TO THE D-AXIS, OF THE PERTINENT PORTIONS OF THE CURVES OF FIGURE 1



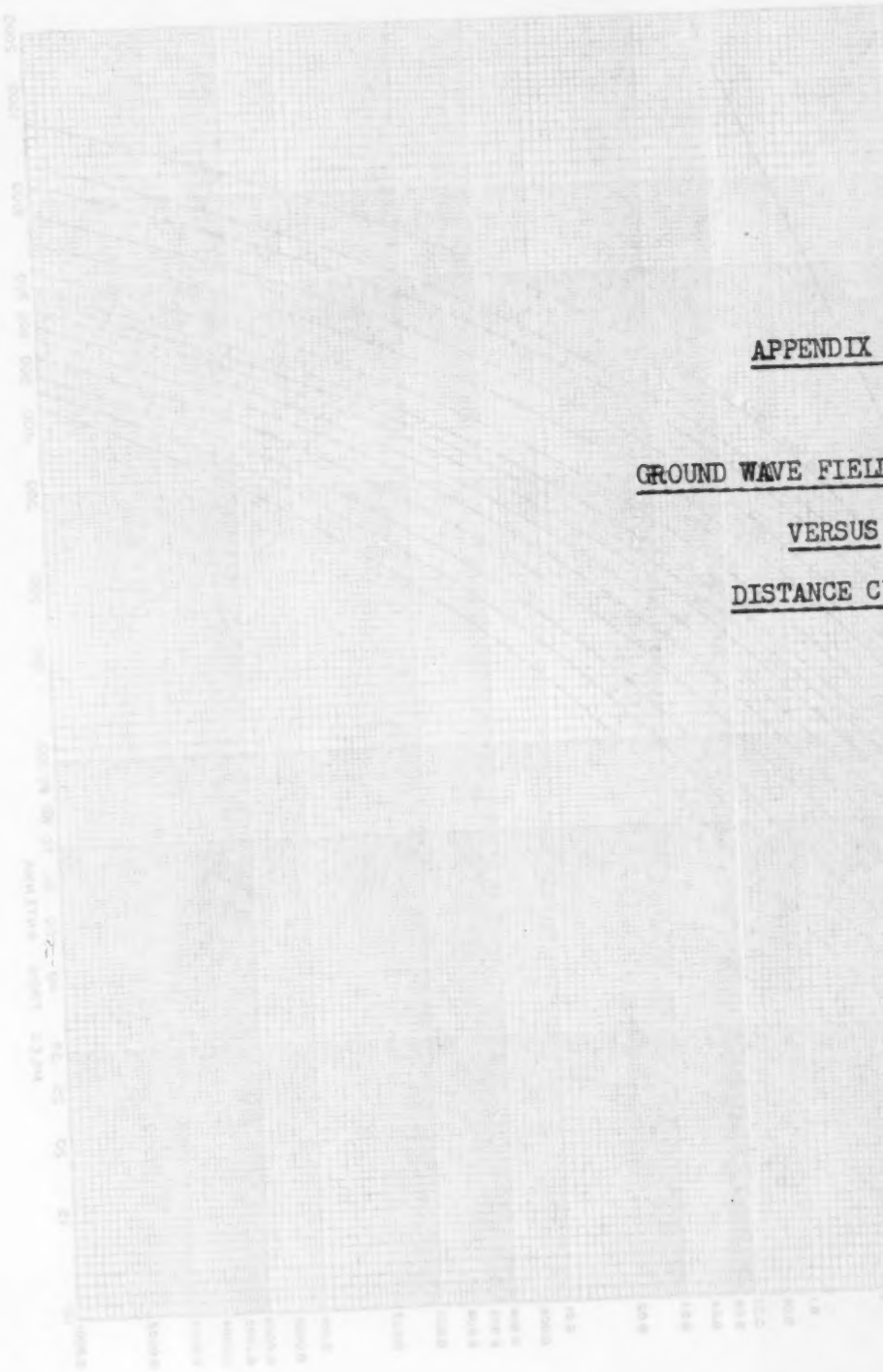
APPENDIX H

MAP OF GROUND CONDUCTIVITY OF THE NORTH AMERICAN REGION

CARTA DE CONDUCTIBILIDAD ELECTRICA DE LA



CA DE LA REGION NORTEAMERICANA DE RADIODIFUSION.



APPENDIX

GROUND WAVE FIEL

VERSUS

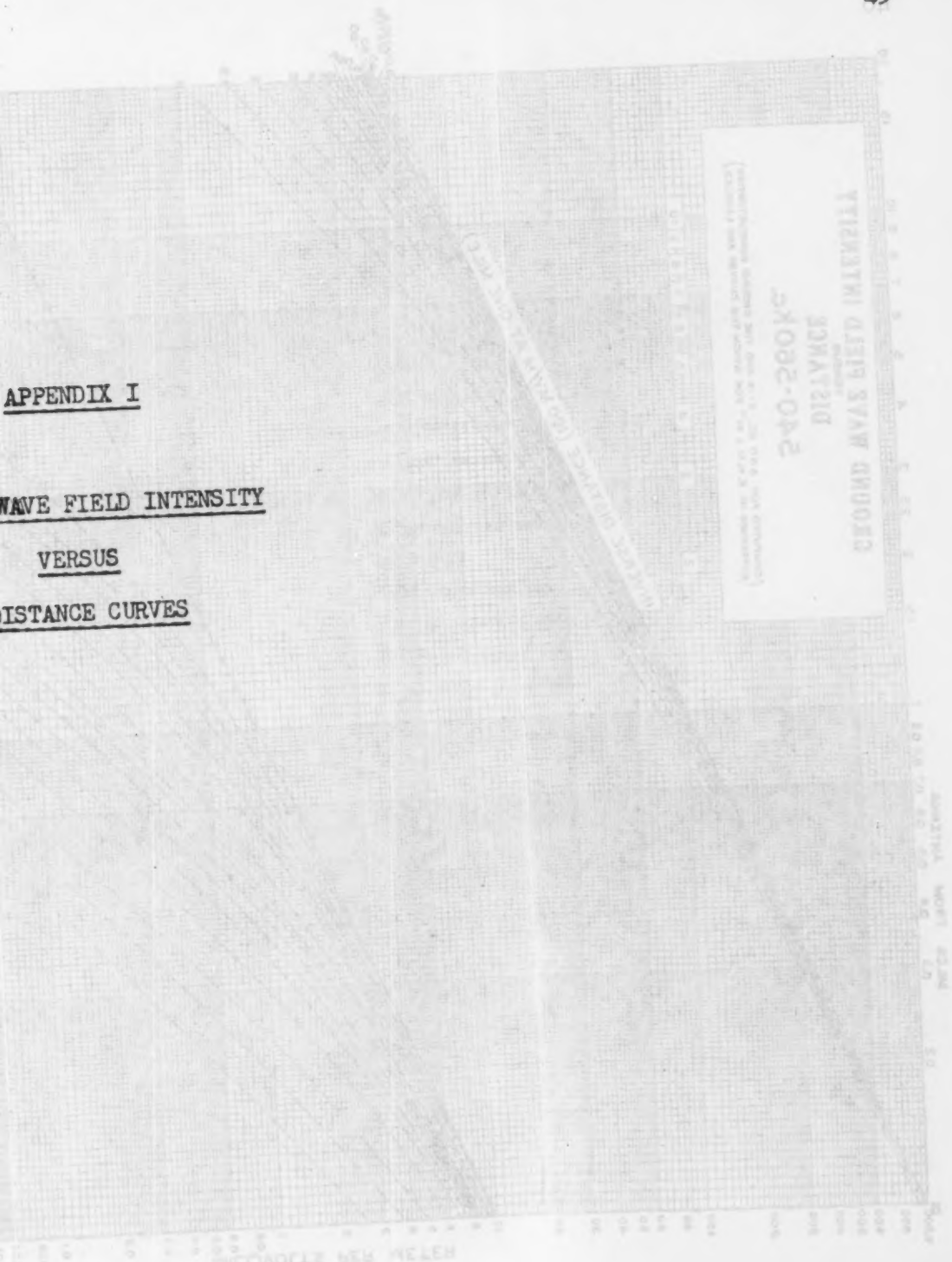
DISTANCE C

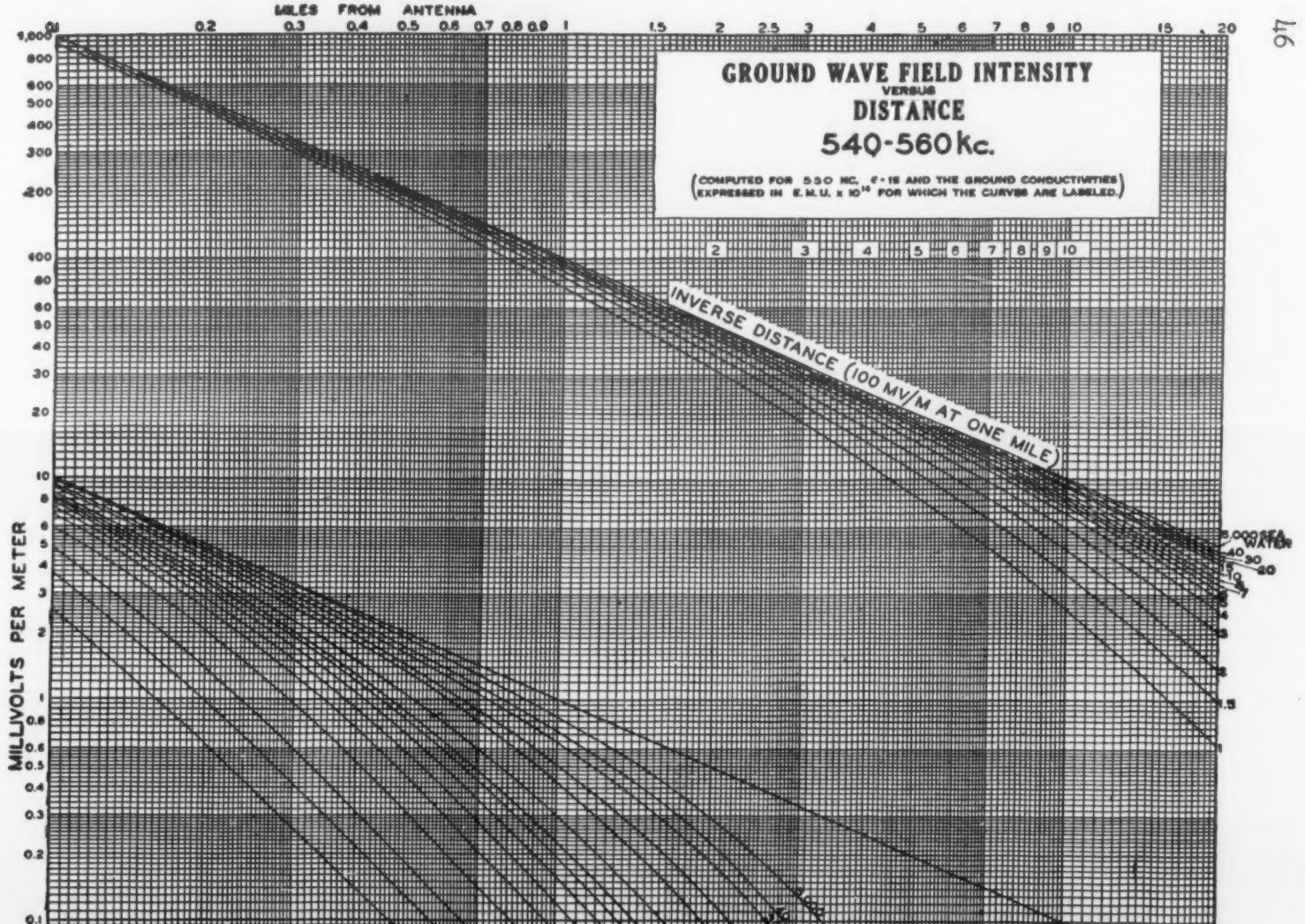
APPENDIX I

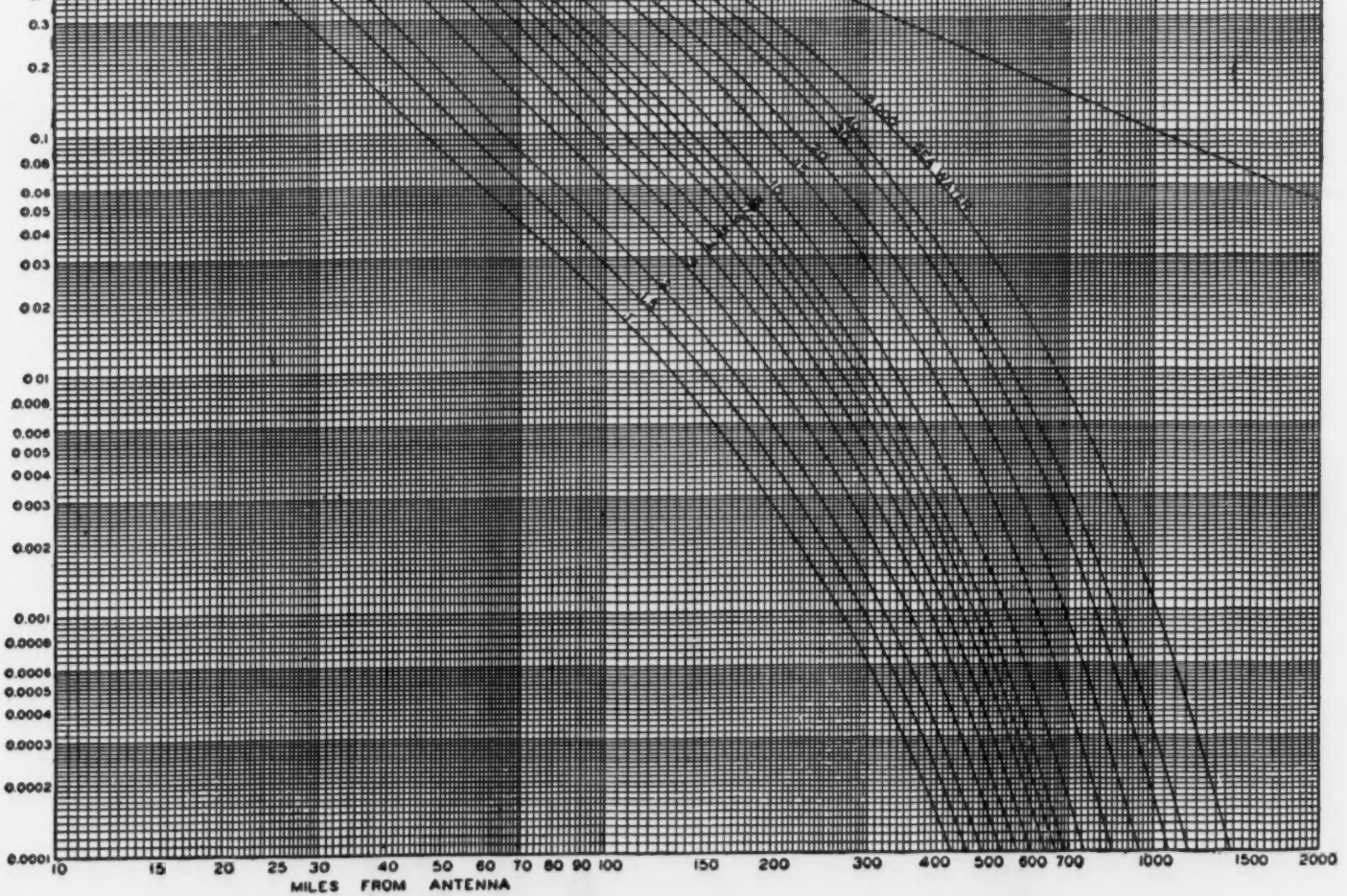
WAVE FIELD INTENSITY

VERSUS

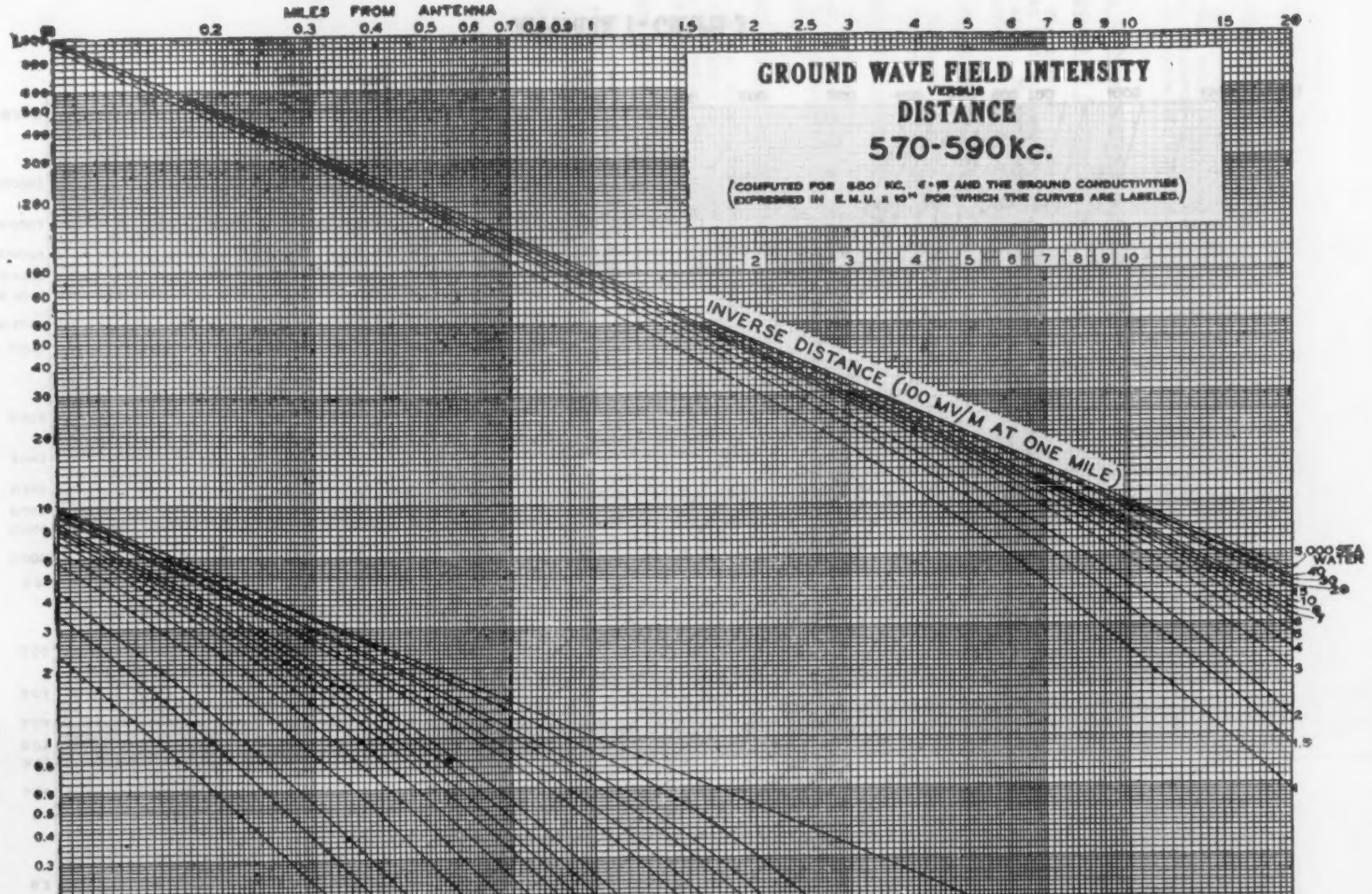
ISTANCE CURVES

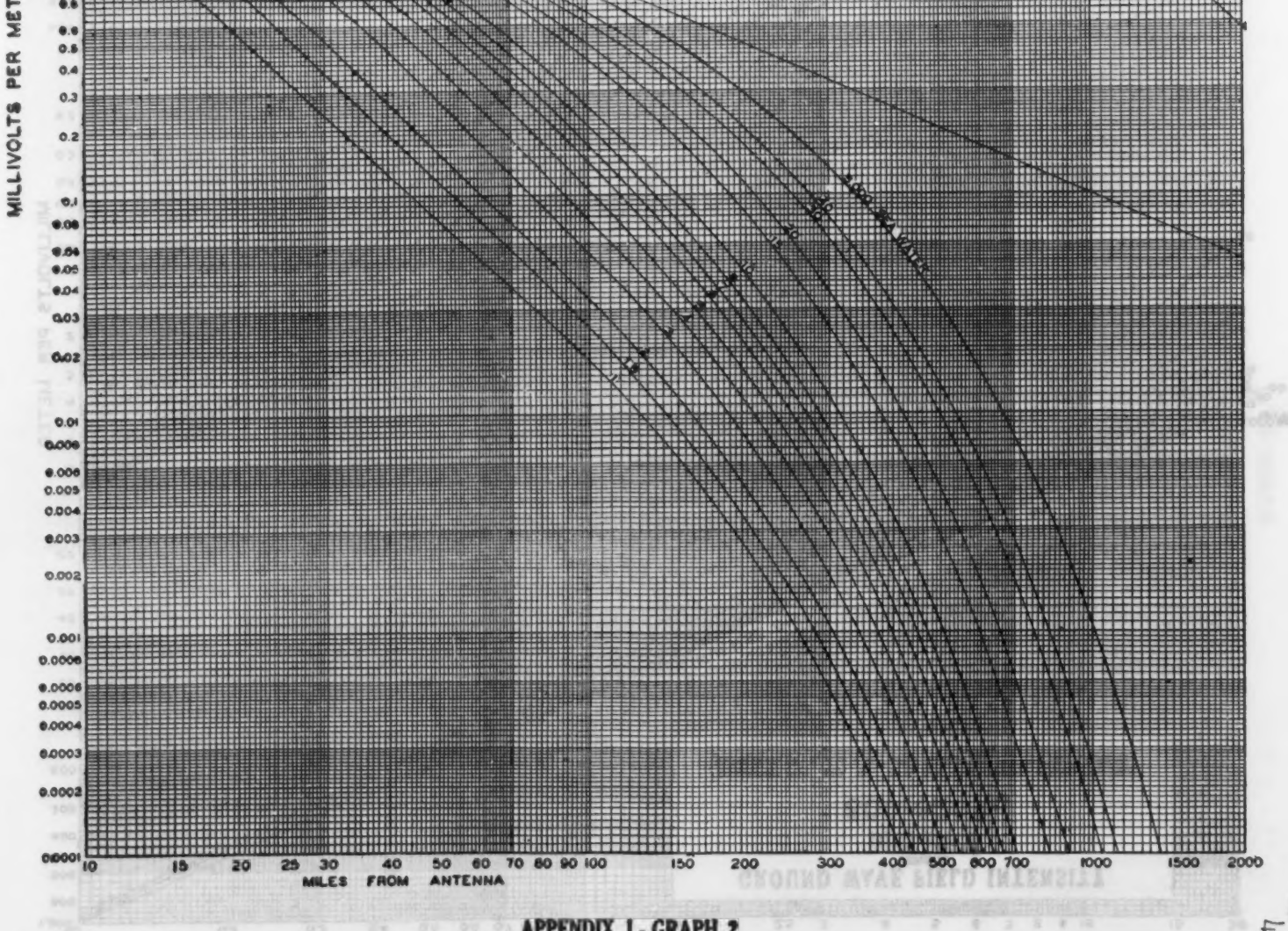



GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
540-560 kc.
(COMPUTED FOR 550 KC., ε = 15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
MILES FROM ANTENNA
MILLIVOLTS PER METER
INVERSE DISTANCE (100 MV/M AT ONE MILE)
SEA WATER

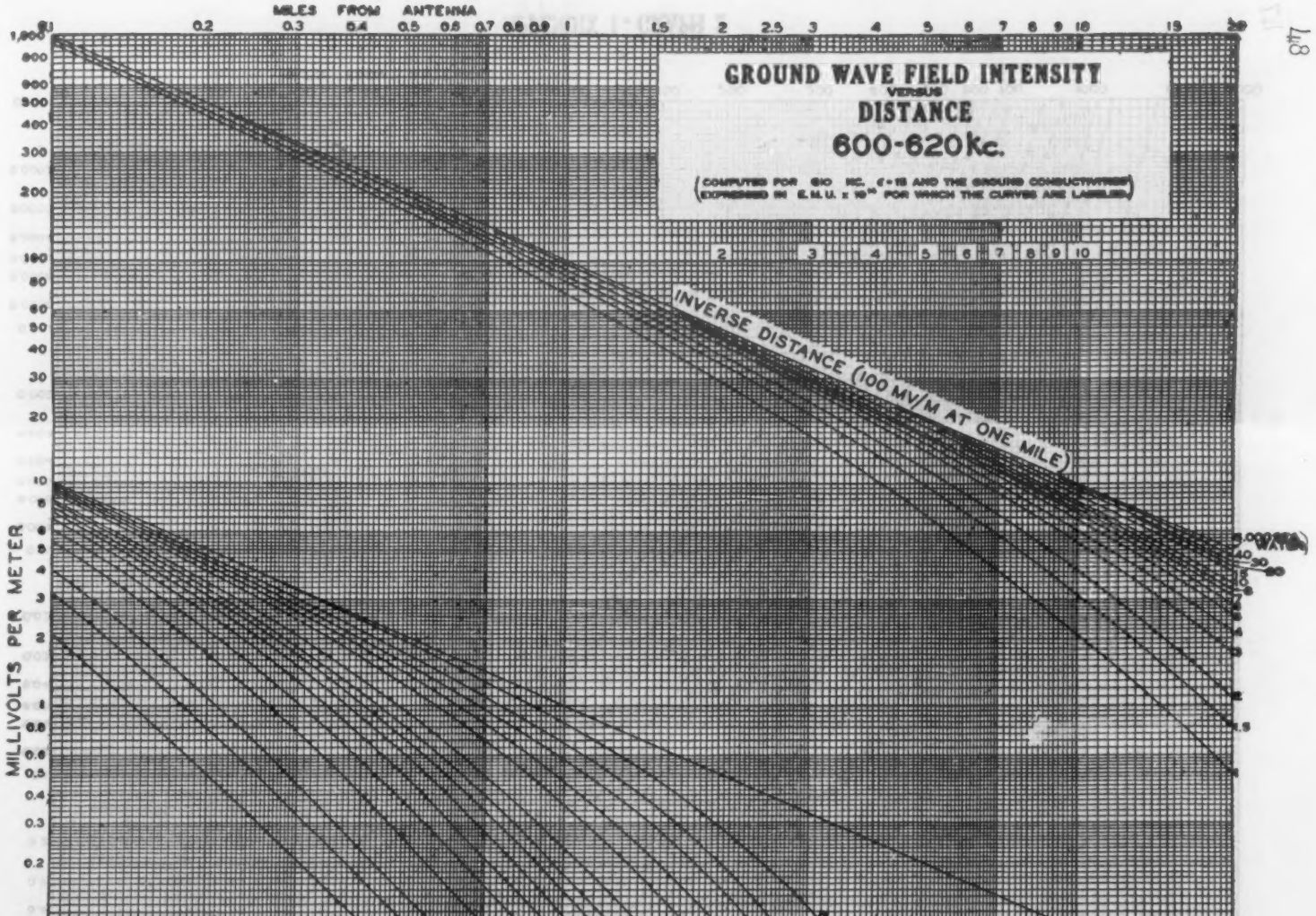


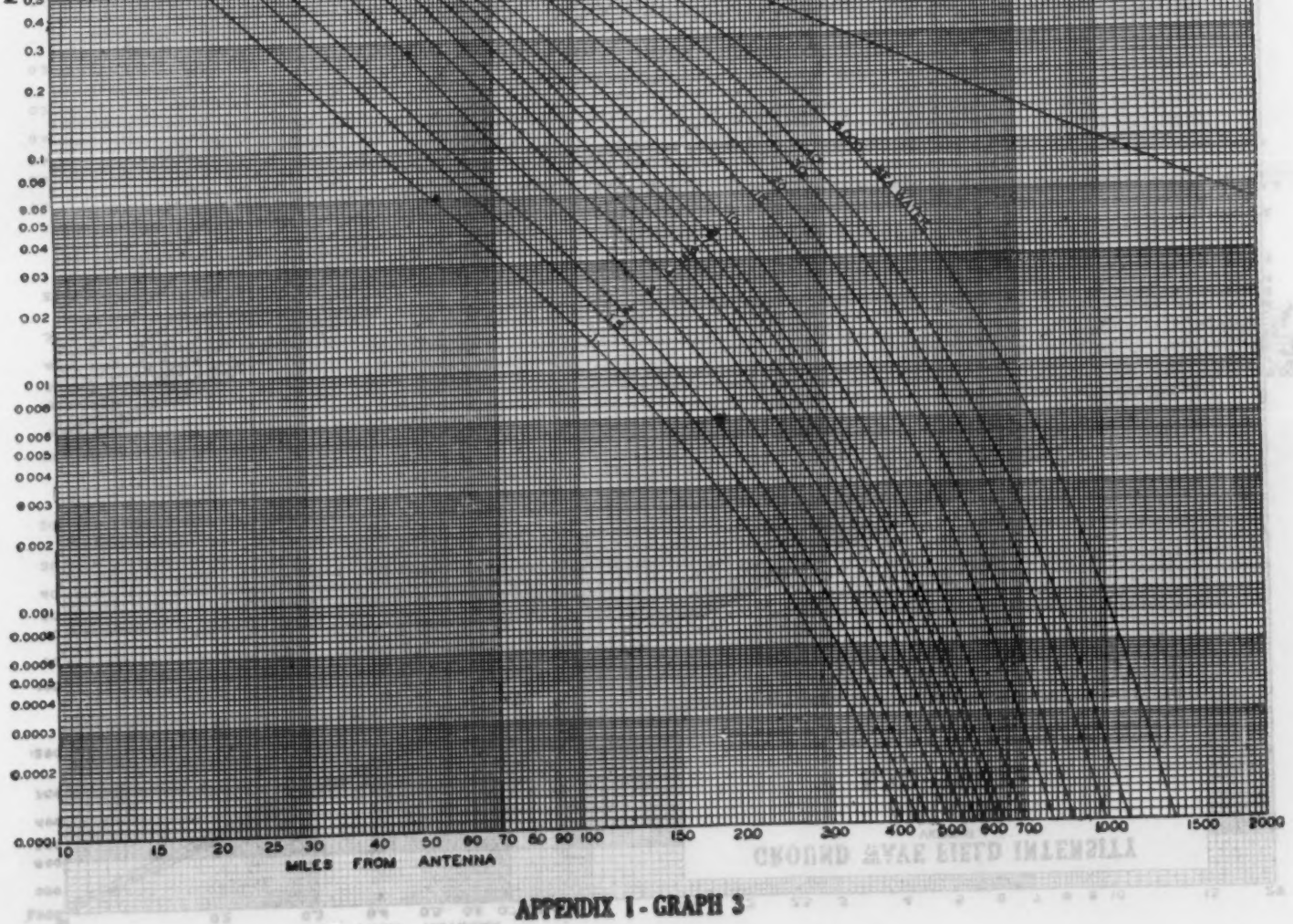
APPENDIX 1 - GRAPH 1


MILES FROM ANTENNA
0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
570-590 Kc.
(COMPUTED FOR 580 KC, d=18 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
VOLTS PER METER

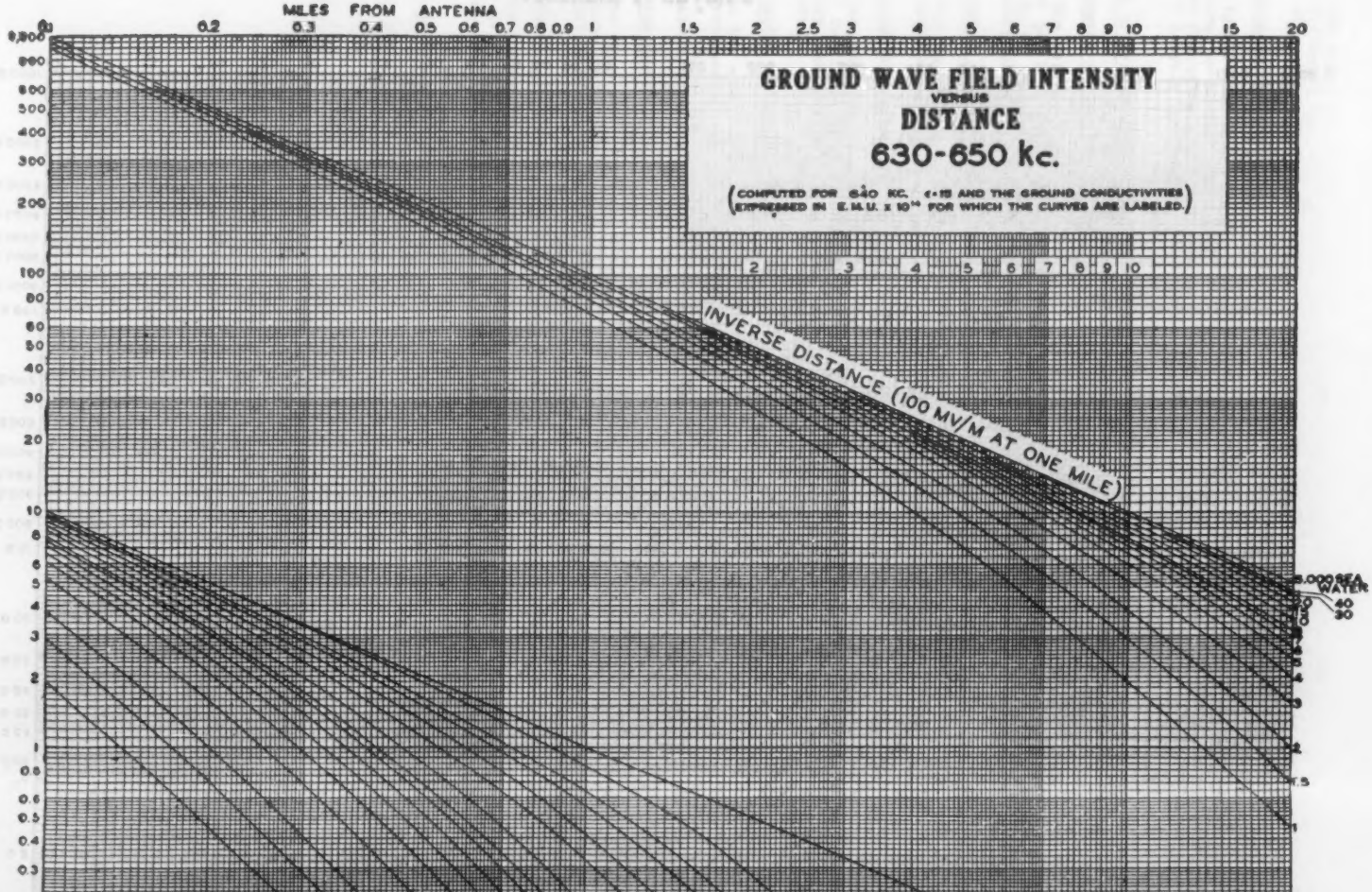


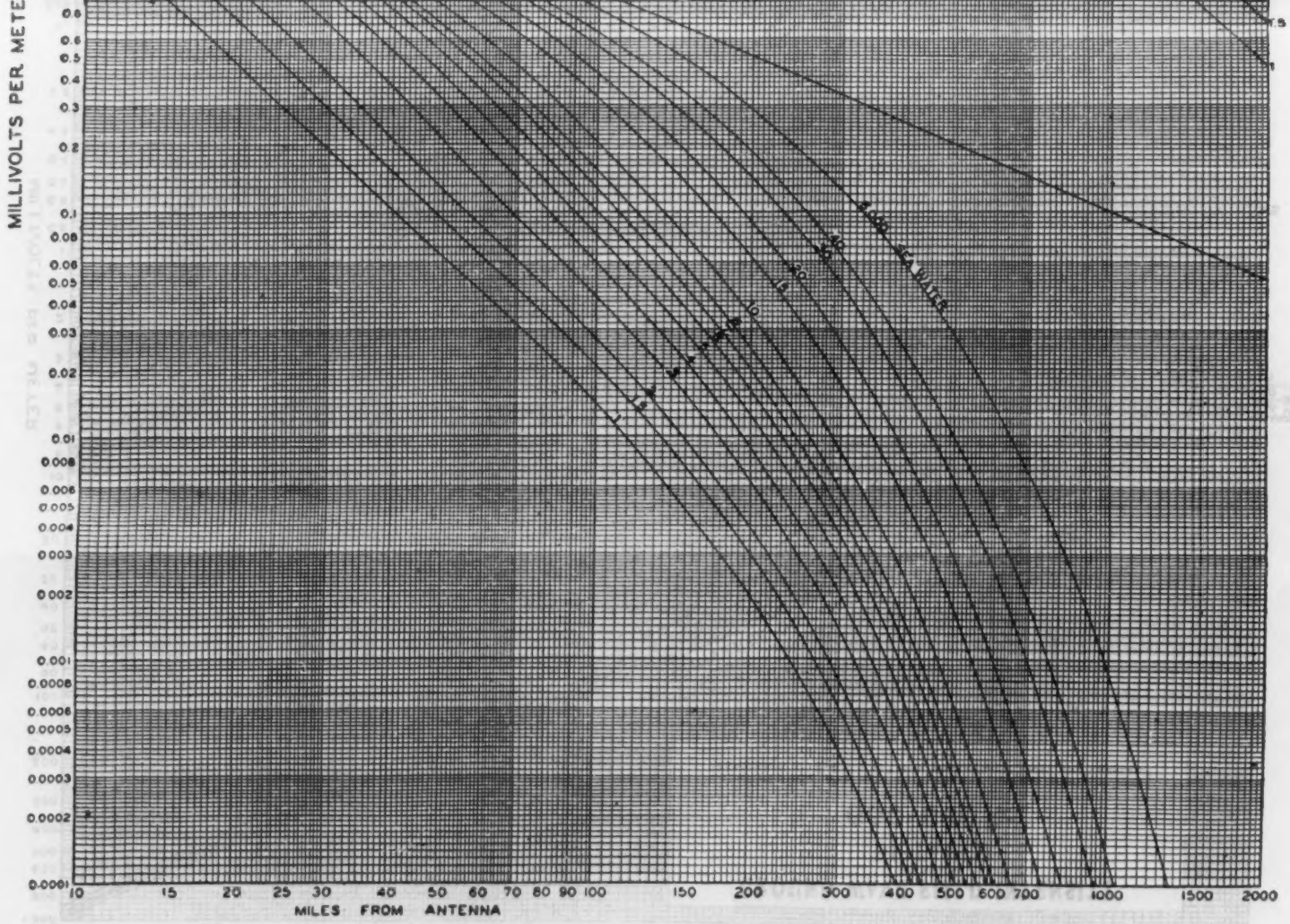
APPENDIX 1 - GRAPH 2


MILES FROM ANTENNA
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.5
2
2.5
3
4
5
6
7
8
9
10
15
20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
600-620kc.
(COMPUTED FOR 610 KC. ε = 15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELLED)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILLIVOLTS PER METER
1,000
800
600
500
400
300
200
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
0.8
0.6
0.5
0.4
0.3
0.2
WATER

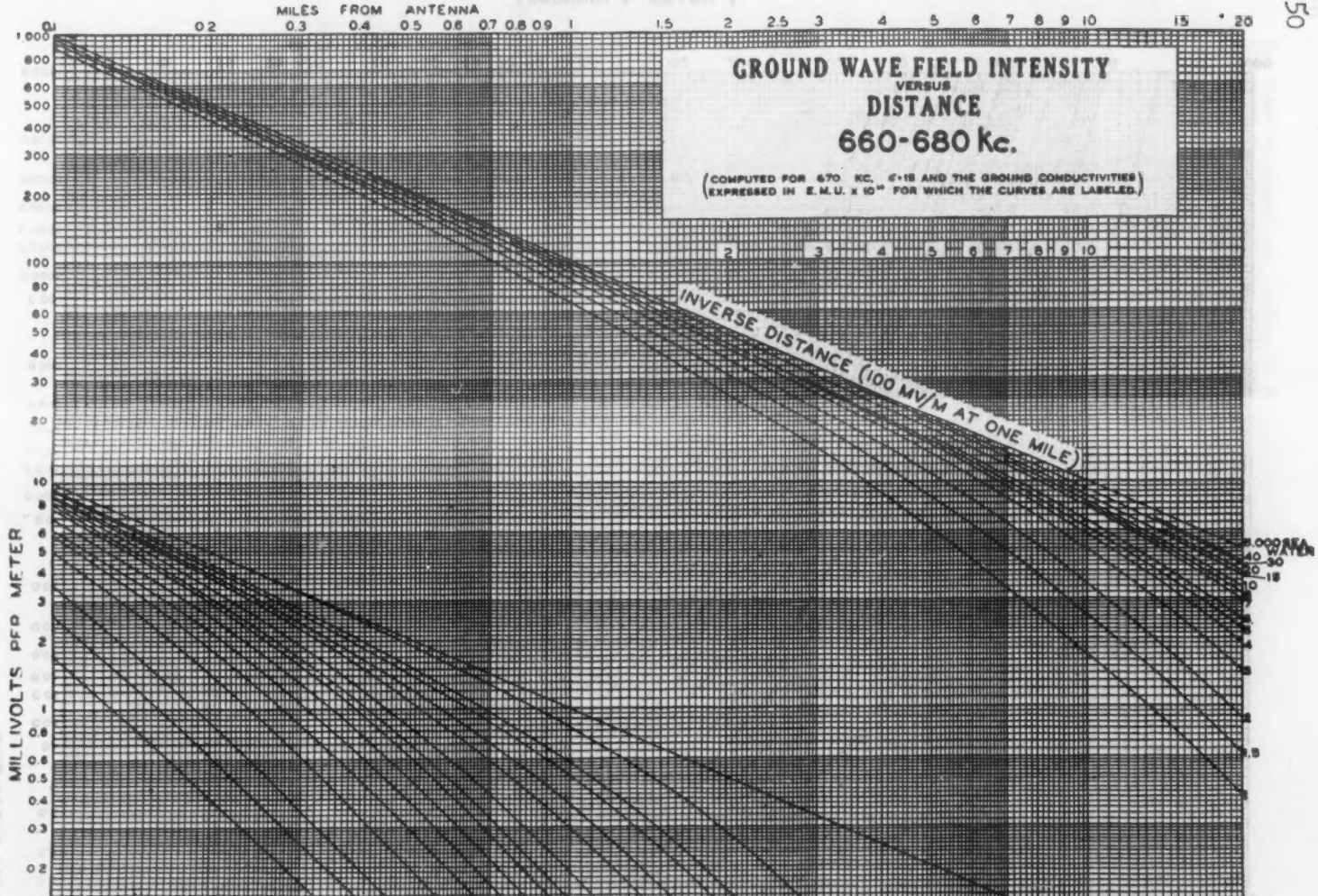


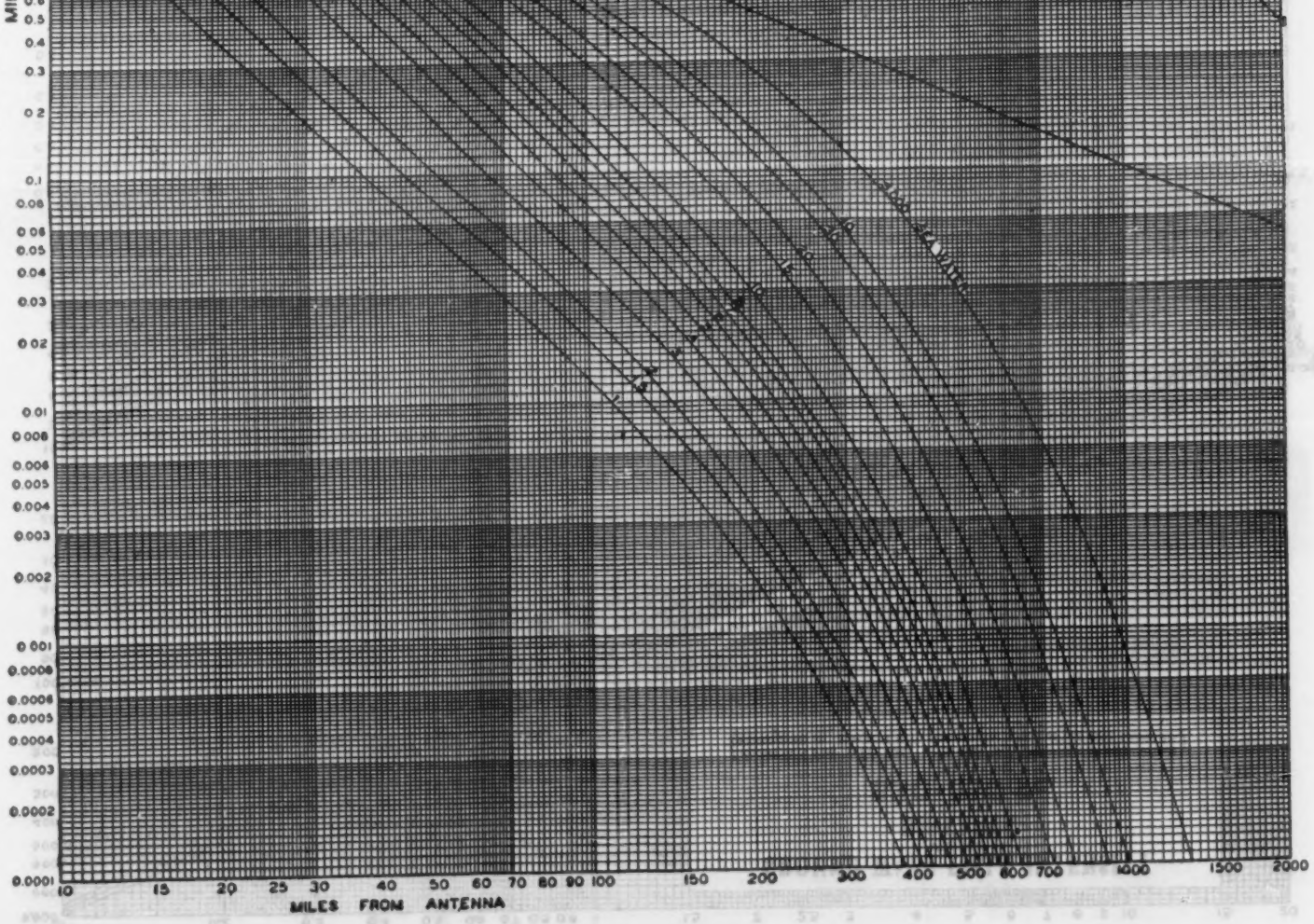
APPENDIX I - GRAPH 3


MILES FROM ANTENNA
0 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
630-650 kc.
(COMPUTED FOR 640 KC. ε=15 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
SEA WATER
40
30
MILLIVOLTS PER METER
1,000
900
800
500
400
300
200
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
0.8
0.6
0.5
0.4
0.3

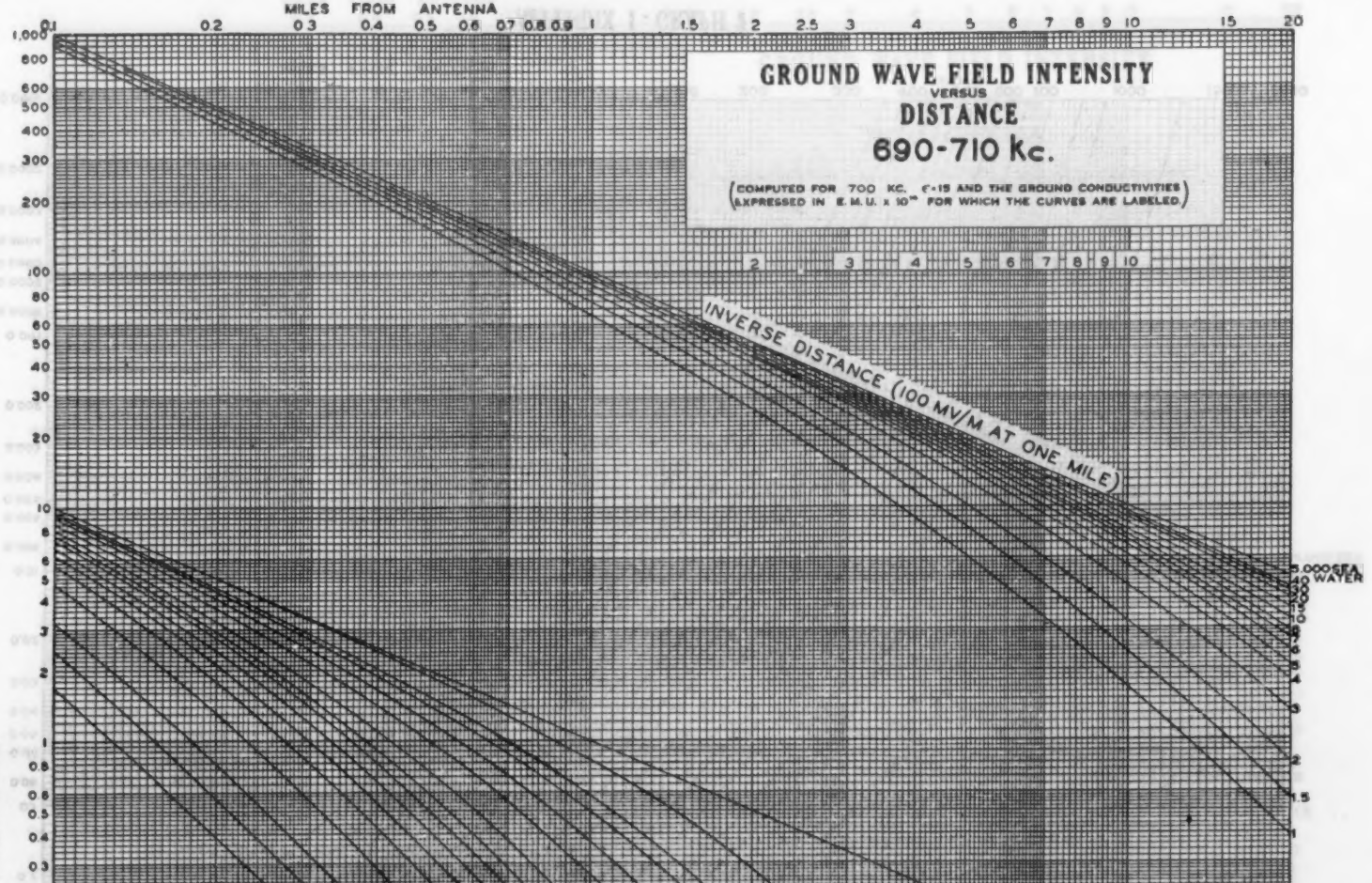


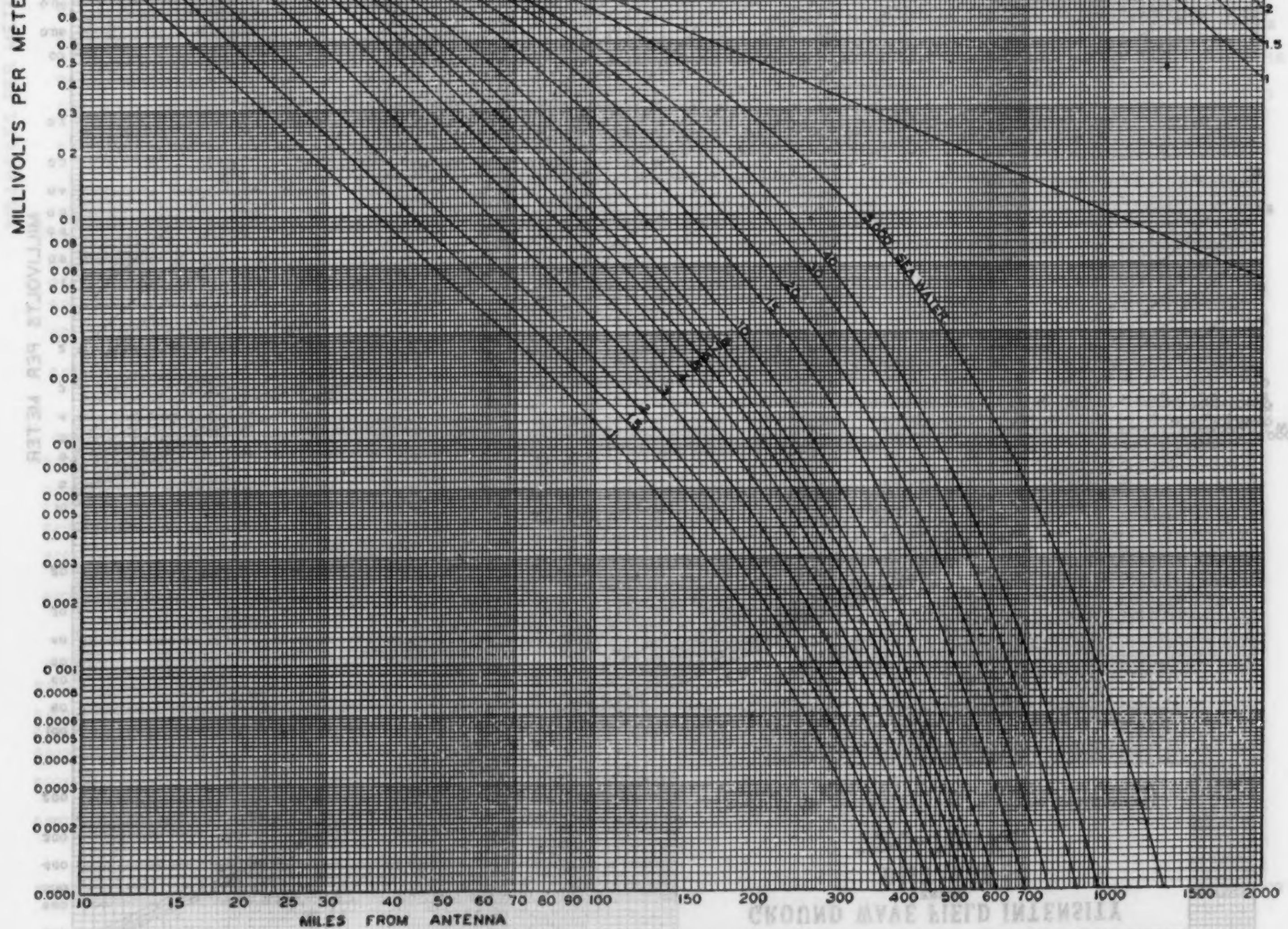
APPENDIX I - GRAPH 4


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
660-680 Kc.
(COMPUTED FOR 670 KC. ε=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10¹³ FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILES FROM ANTENNA
0 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
MILLIVOLTS PER METER
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3 0.2
2 3 4 5 6 7 8 9 10
5,000 SEA WATER
40 30 20 15 10

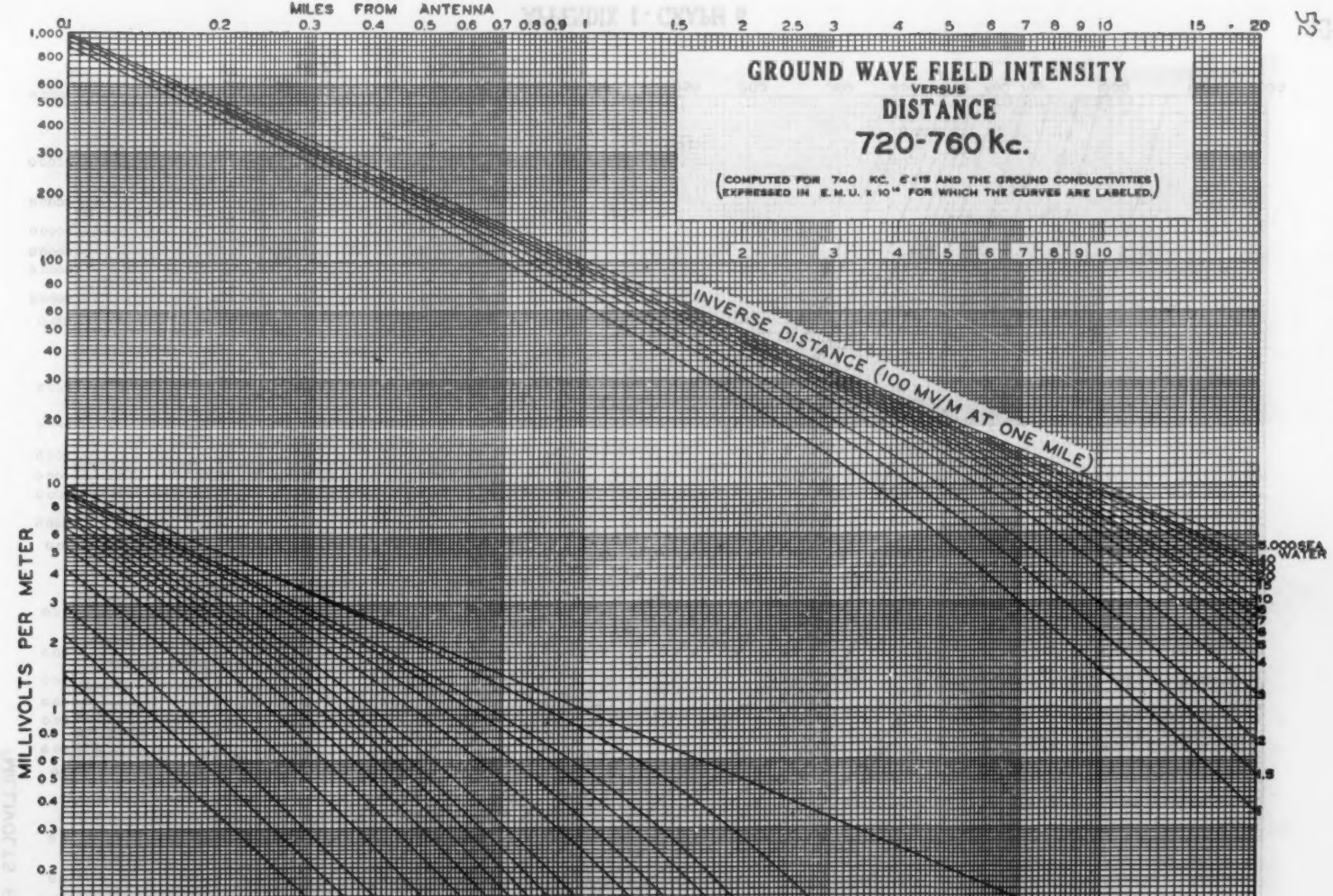


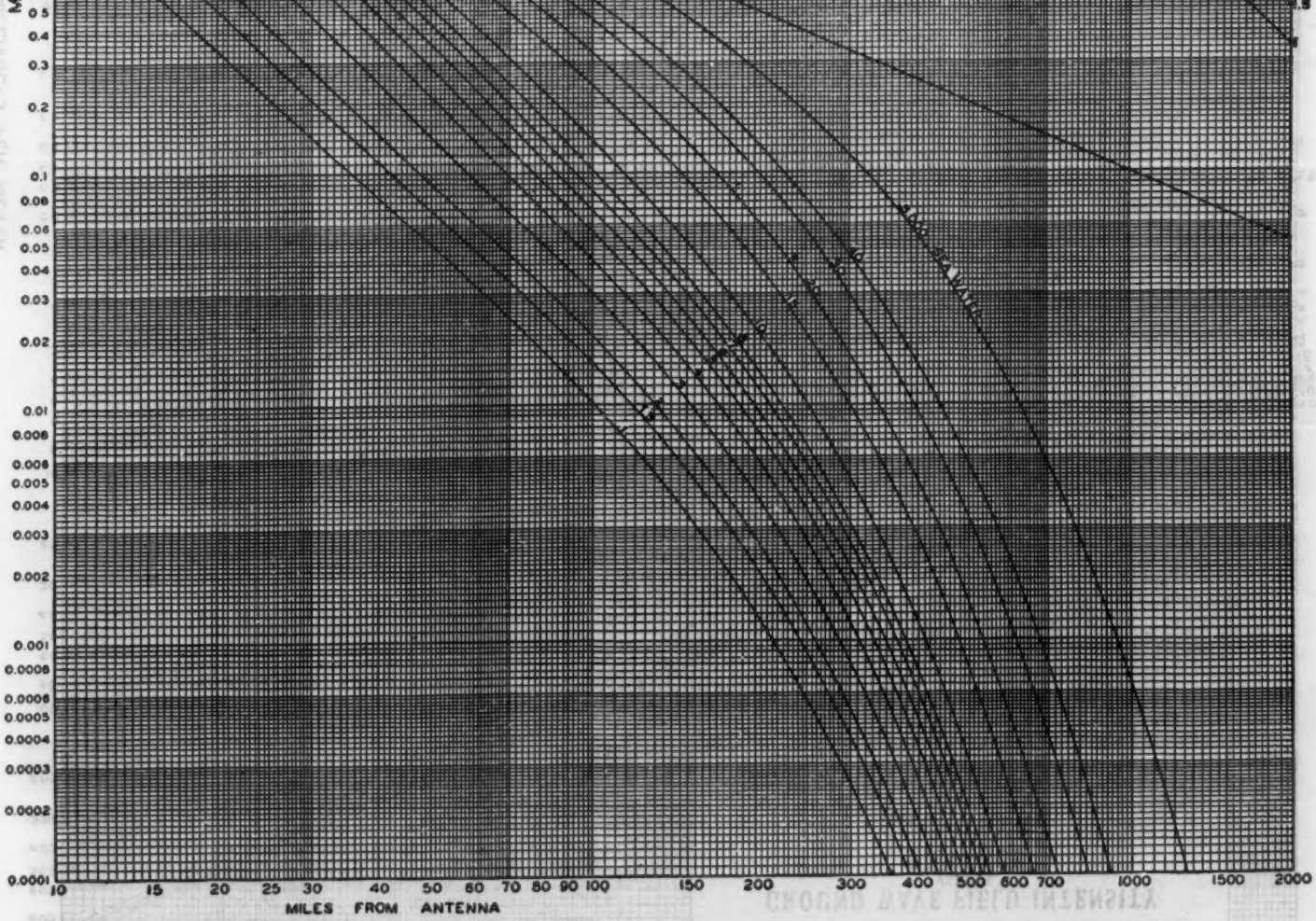
APPENDIX I - GRAPH 5


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
690-710 kc.
(COMPUTED FOR 700 KC. ε=15 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10^13 FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
MILLIVOLTS PER METER
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3

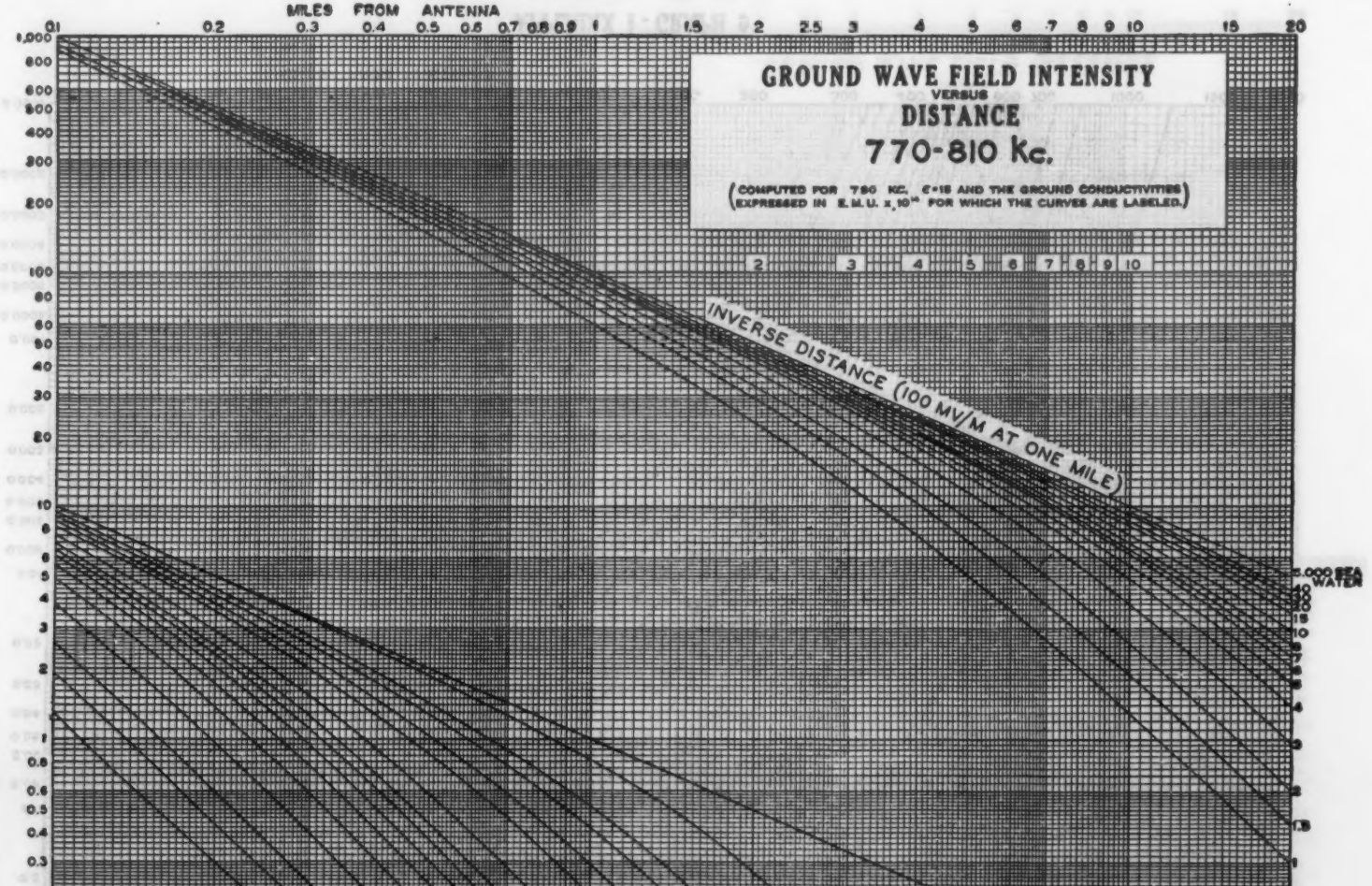


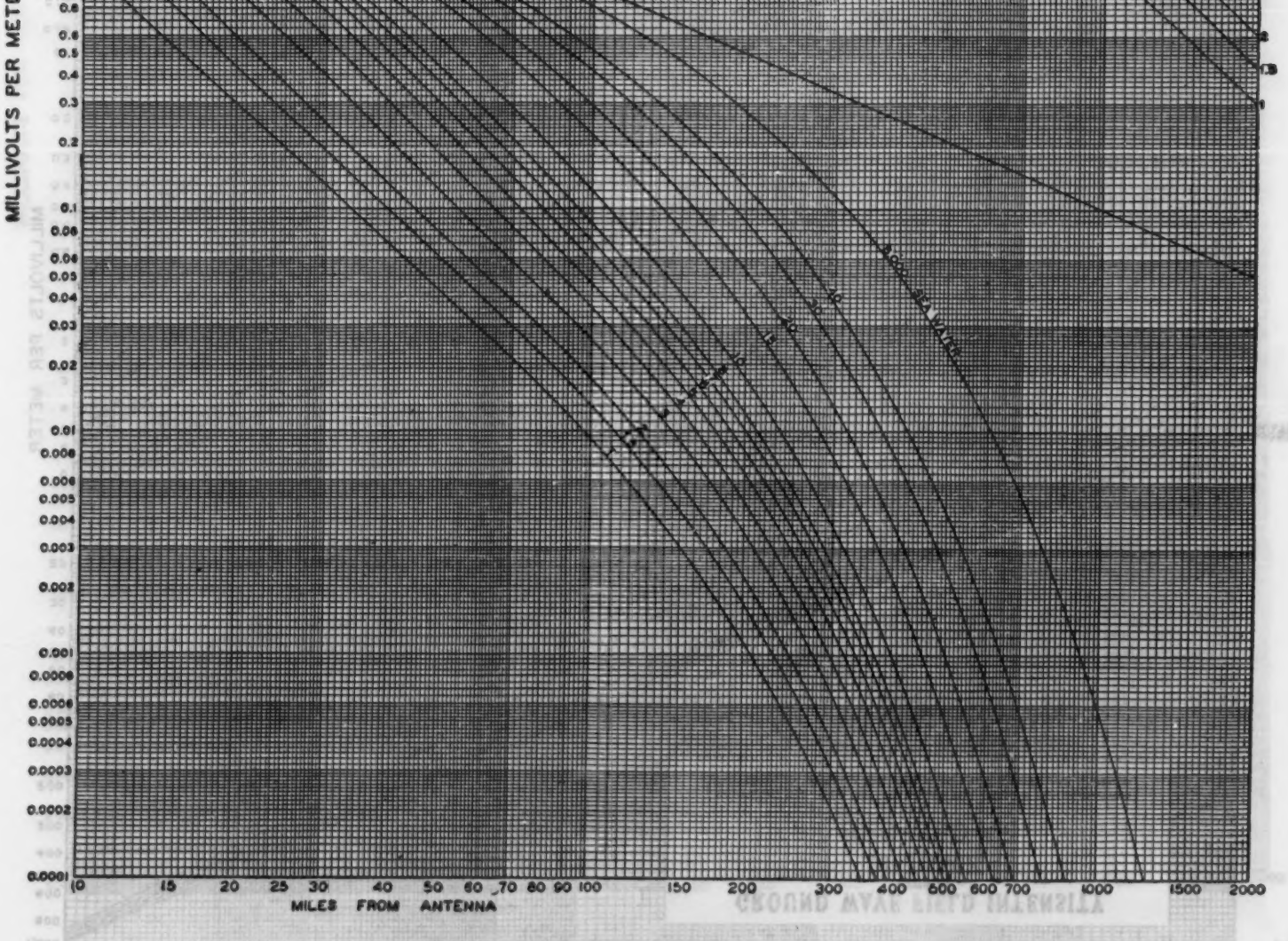
APPENDIX I - GRAPH 6


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
720-760 Kc.
(COMPUTED FOR 740 KC. ε'=15 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10¹⁴ FOR WHICH THE CURVES ARE LABELED.)
MILES FROM ANTENNA
MILLIVOLTS PER METER
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER

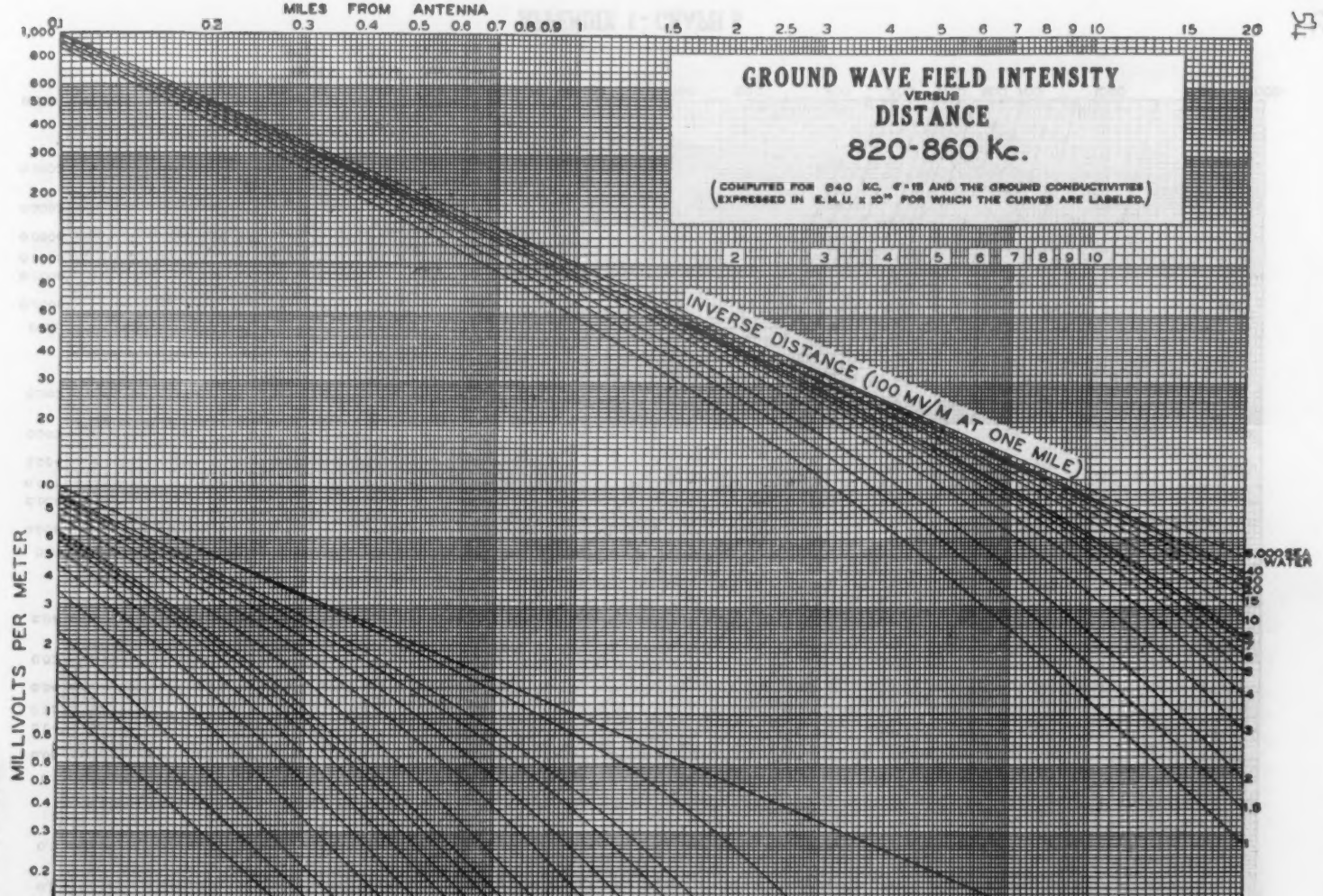


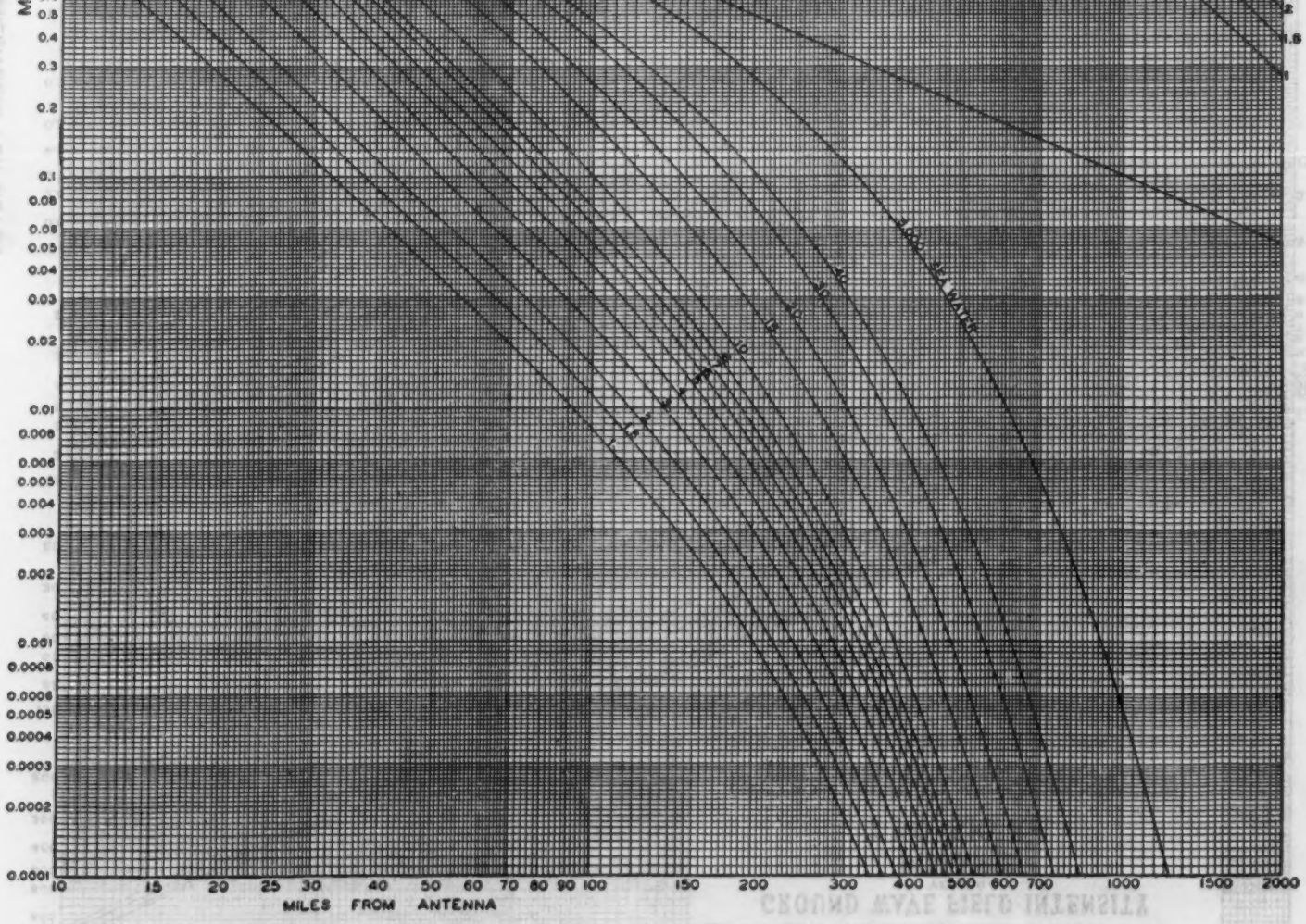
APPENDIX I - GRAPH 7


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
770-810 Kc.
(COMPUTED FOR 790 KC. ε=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3
5,000 SEA WATER
MILLIVOLTS PER METER

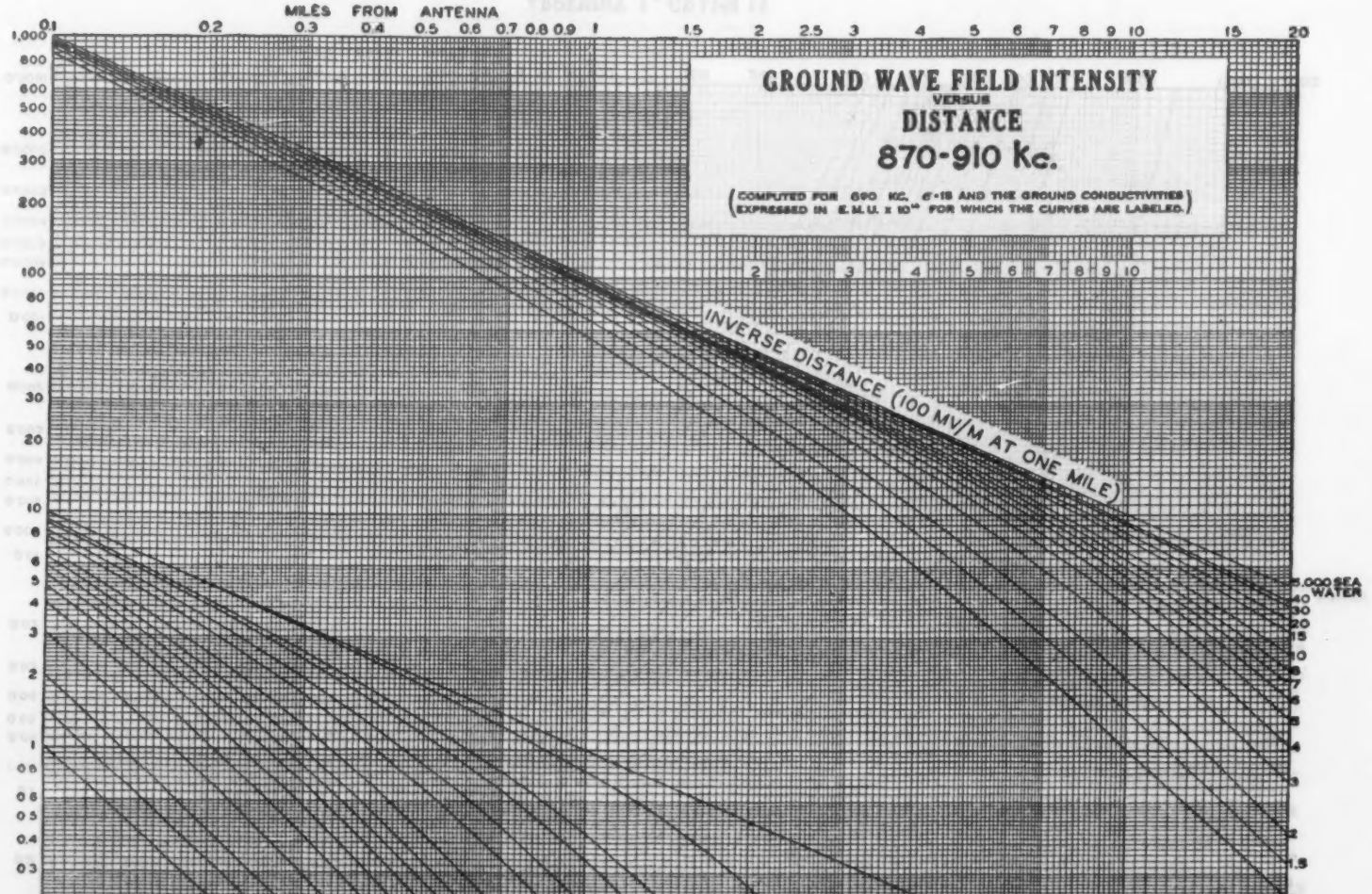


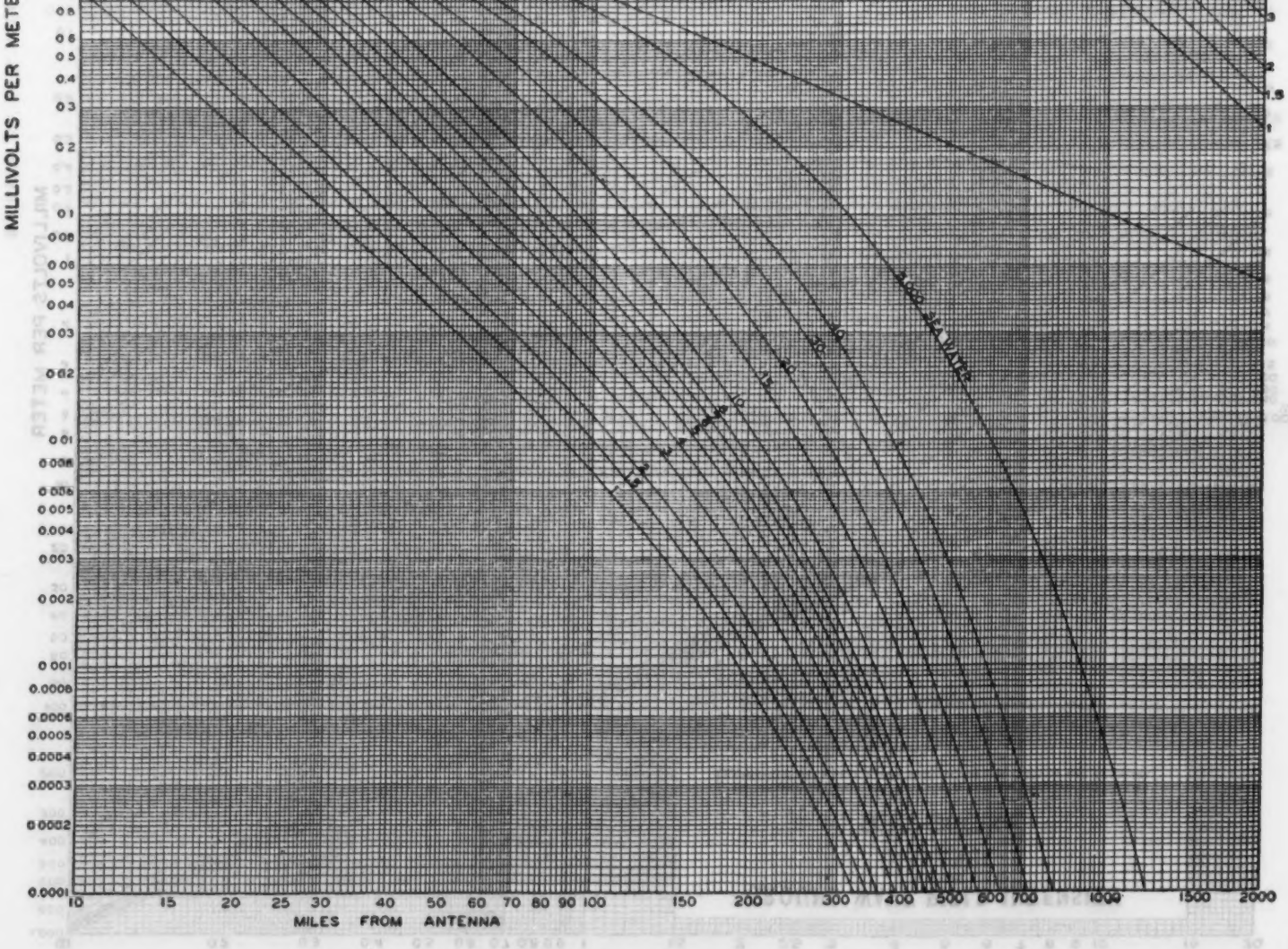
APPENDIX I - GRAPH 8


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
820-860 Kc.
(COMPUTED FOR 840 KC. σ = 15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^13 FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILES FROM ANTENNA
MILLIVOLTS PER METER
5,000 SEA WATER

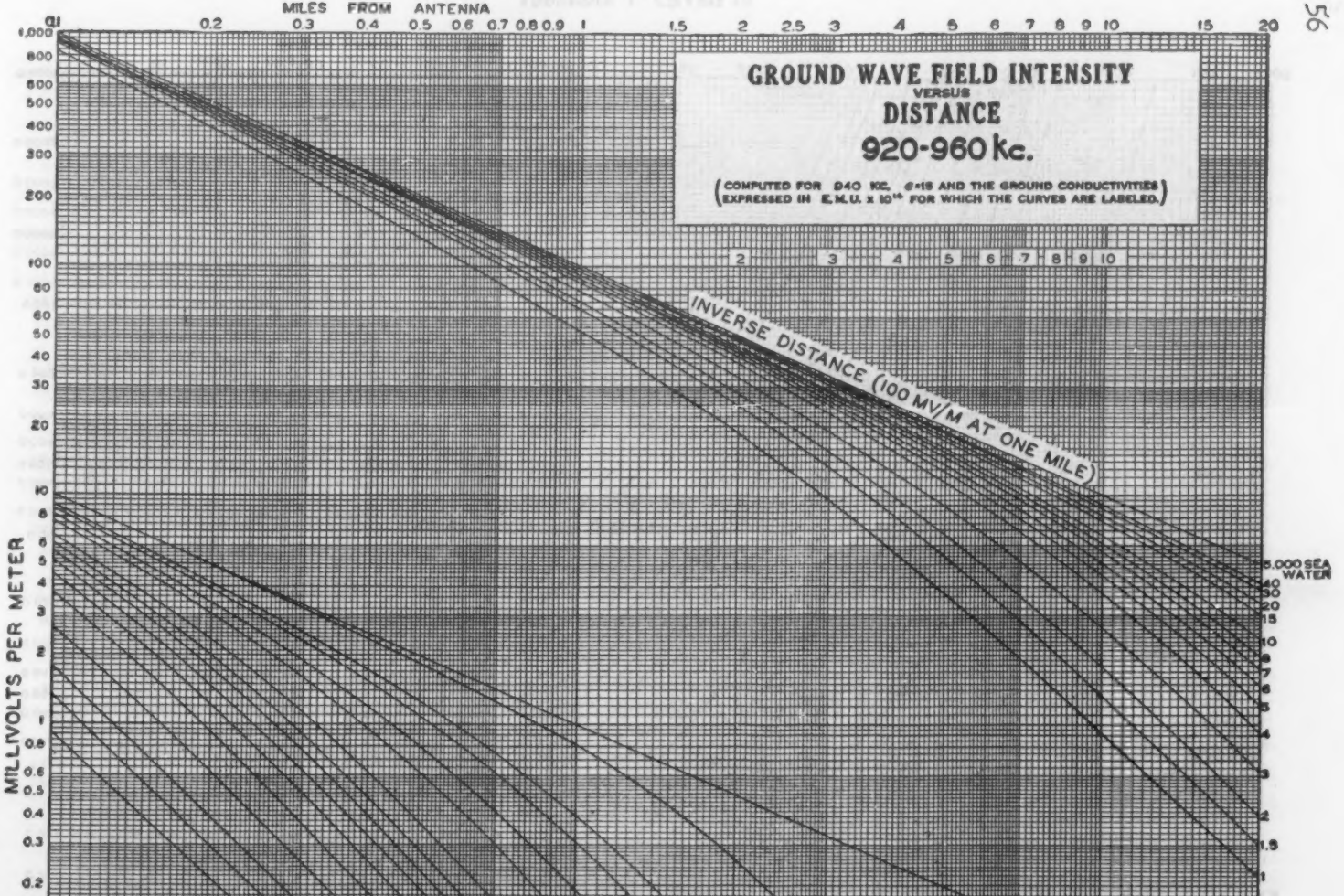


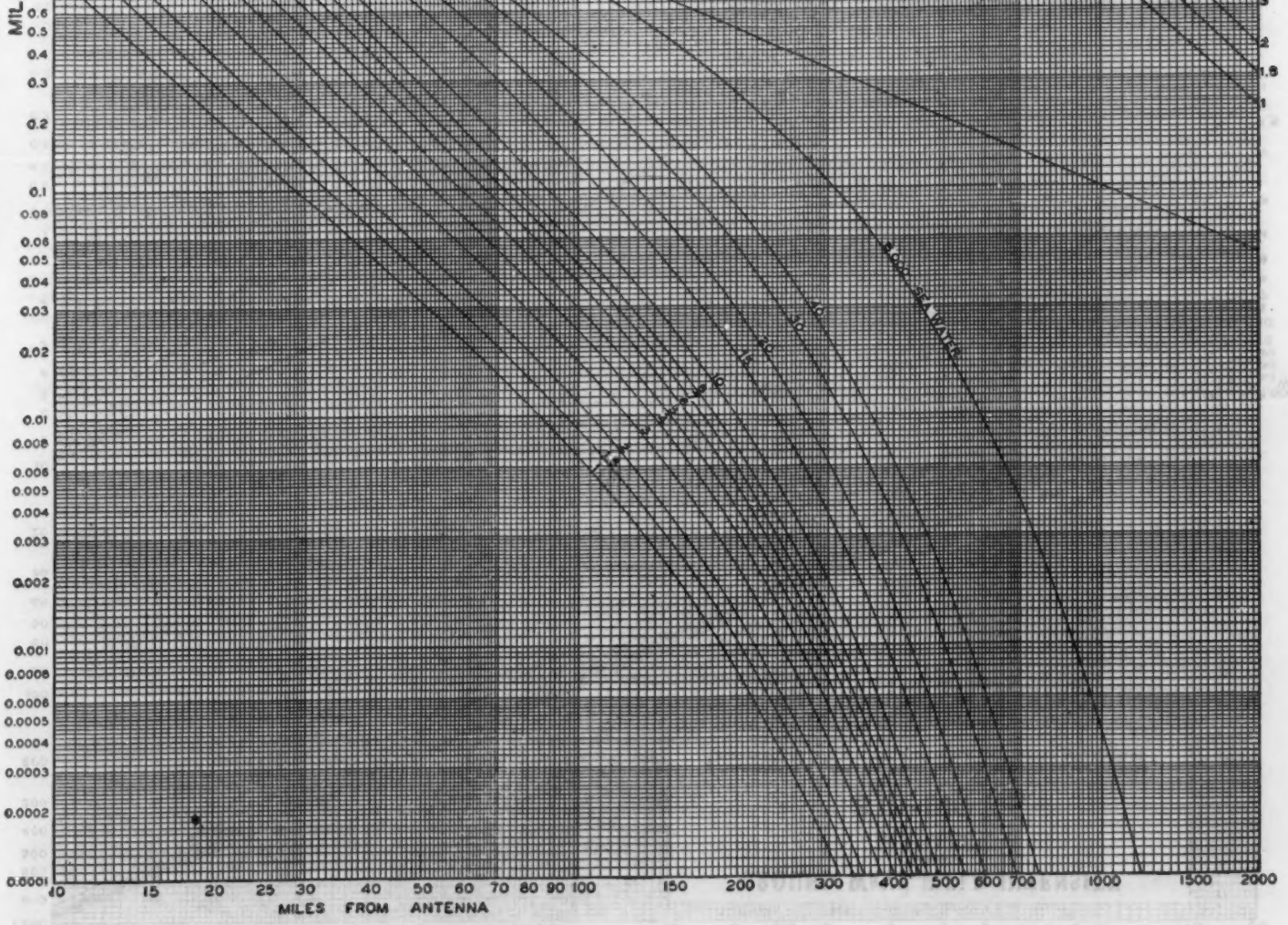
APPENDIX I - GRAPH 9


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
870-910 Kc.
(COMPUTED FOR 890 KC. ε=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
SEA WATER
40 30 20 15 10 9 8 7 6 5 4 3 2 1.5
MILLIVOLTS PER METER

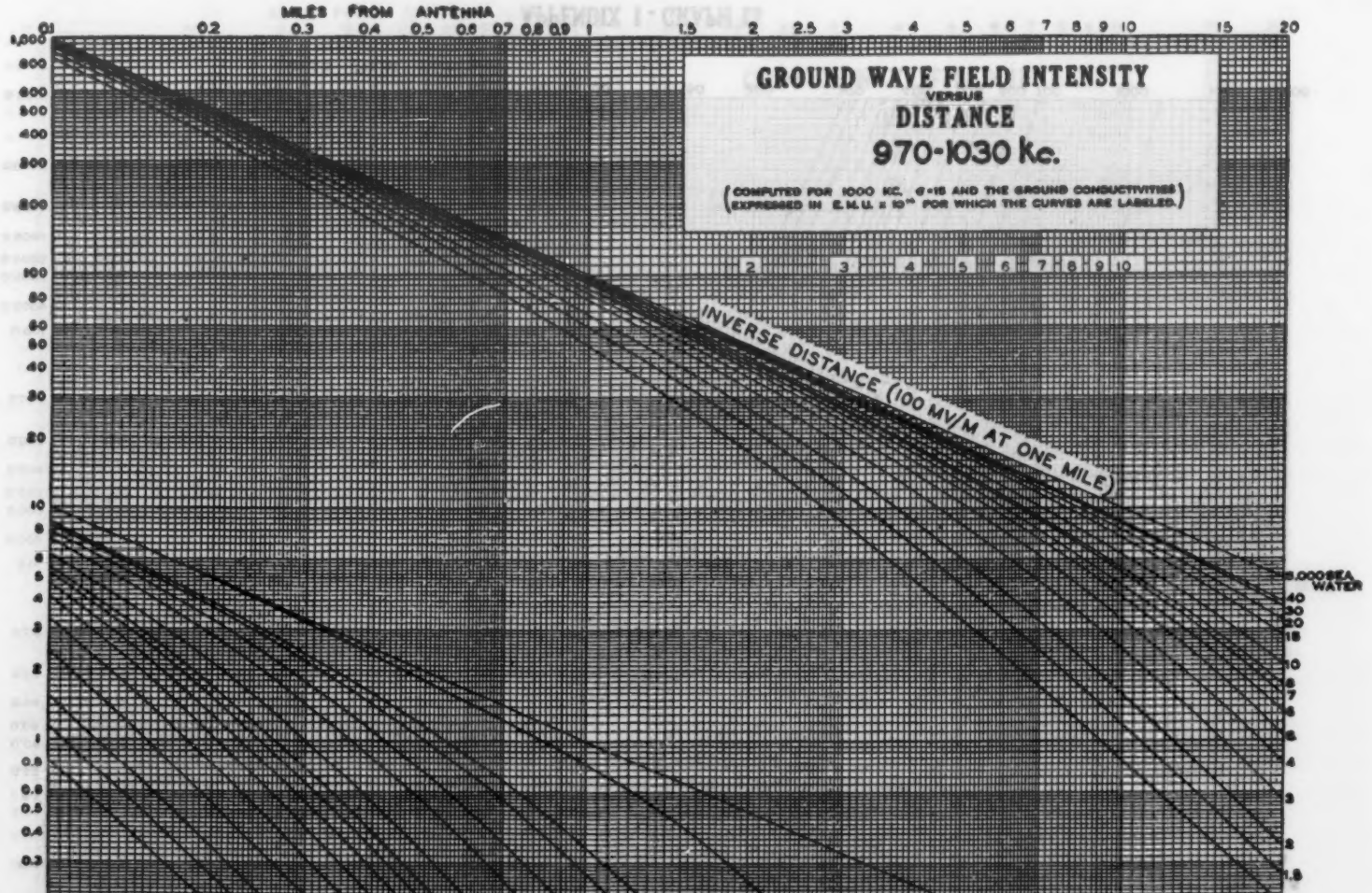


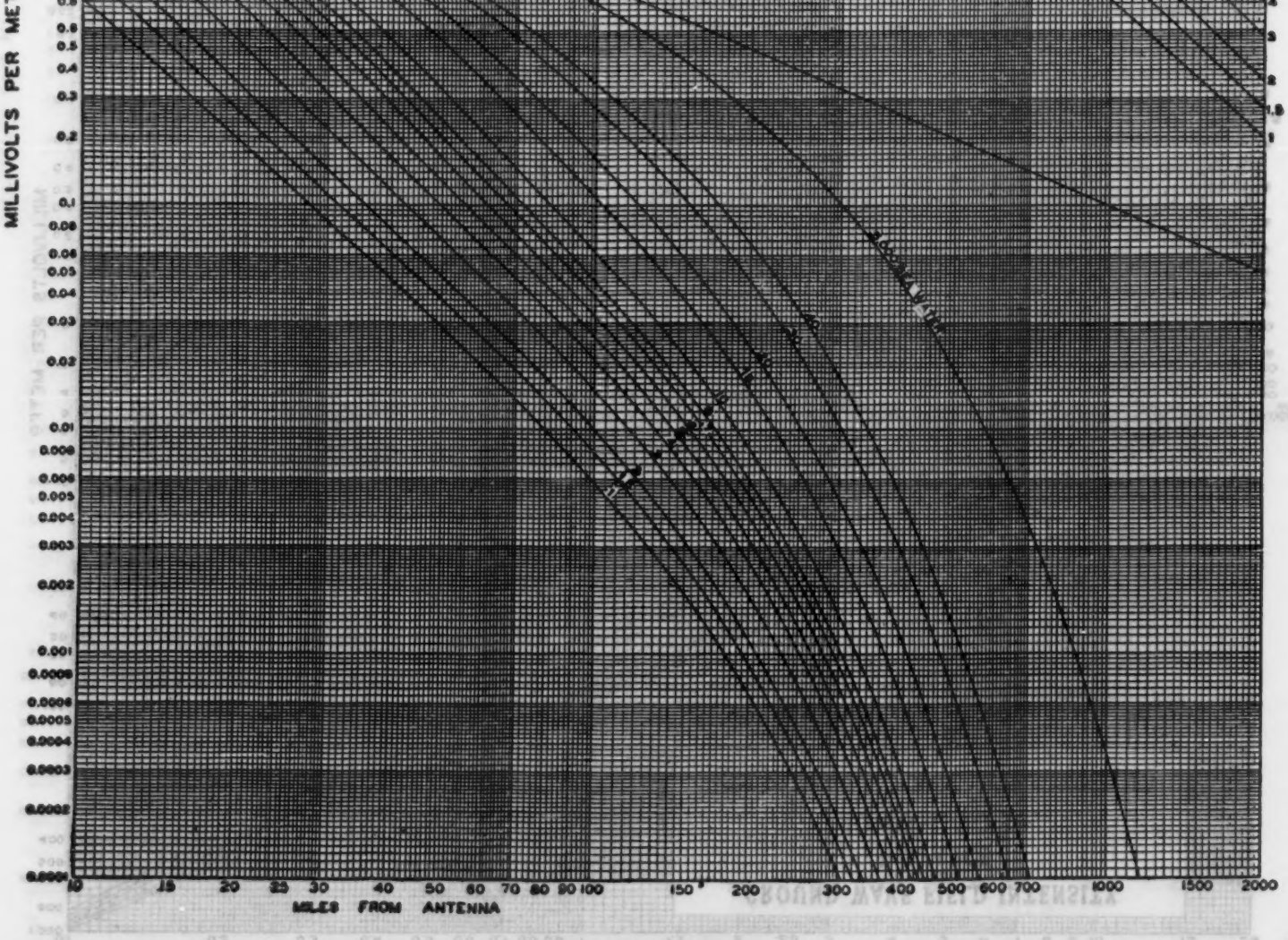
APPENDIX I - GRAPH 10


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
920-960 kc.
(COMPUTED FOR 940 KC. ϕ=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILLIVOLTS PER METER
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3 0.2
5,000 SEA WATER
40 30 20 15 10 8 7 6 5 4 3 2 1.5 1

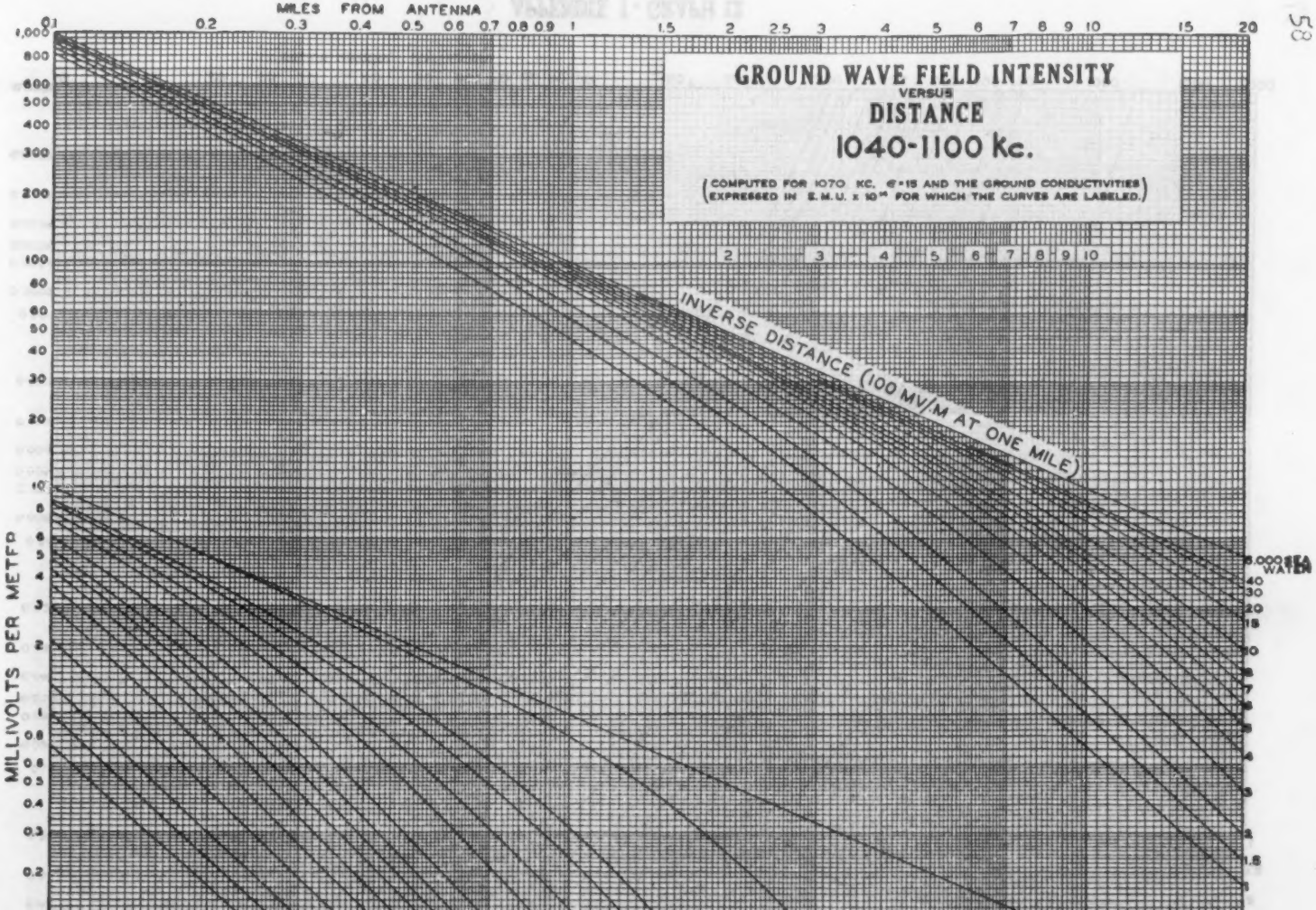


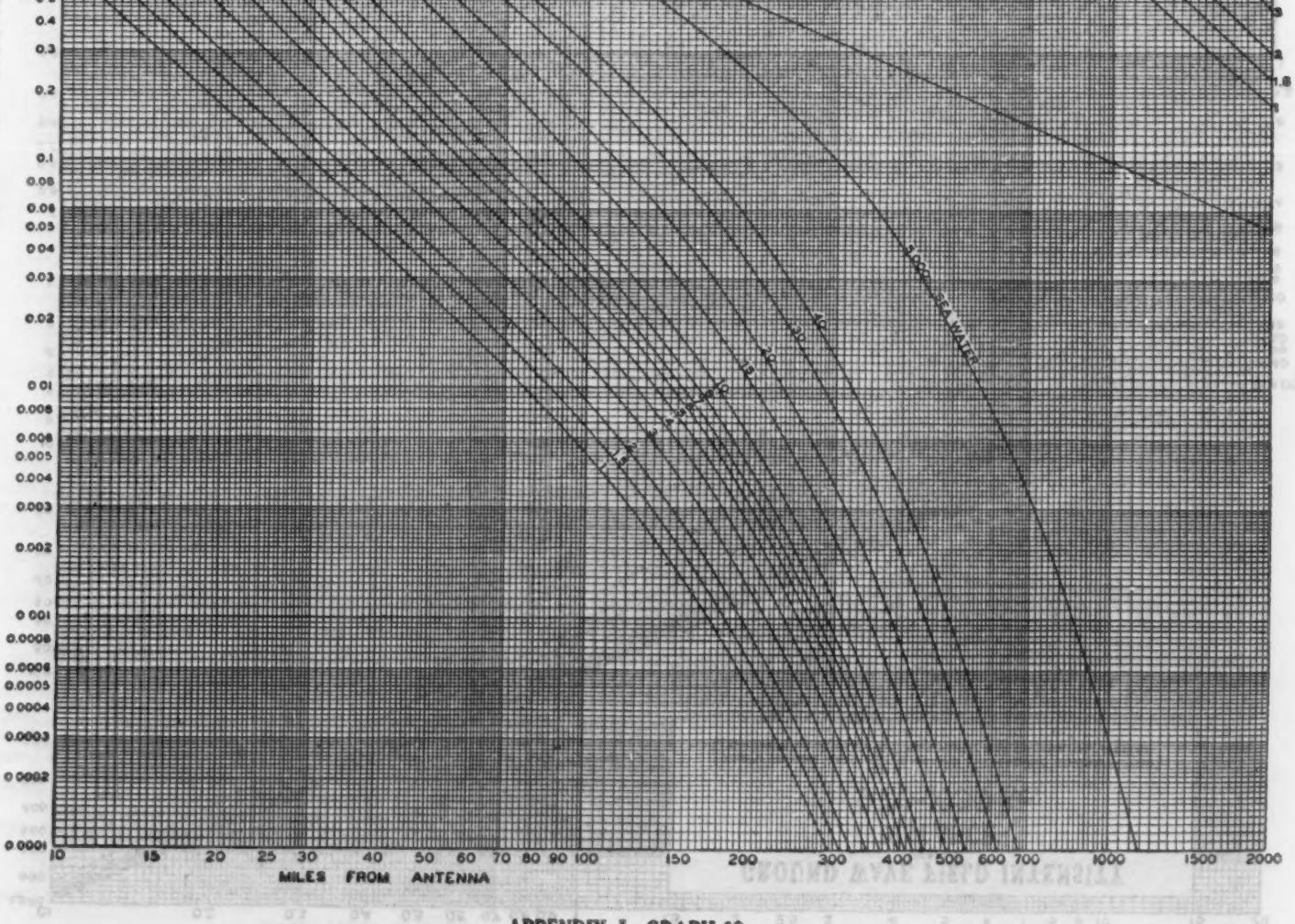
APPENDIX I - GRAPH 11


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
970-1030 kc.
(COMPUTED FOR 1000 KC. ε=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^13 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3
5,000 SEA WATER
40 30 20 18 10 8 7 6 5 4 3 2 1.5
VOLTS PER METER

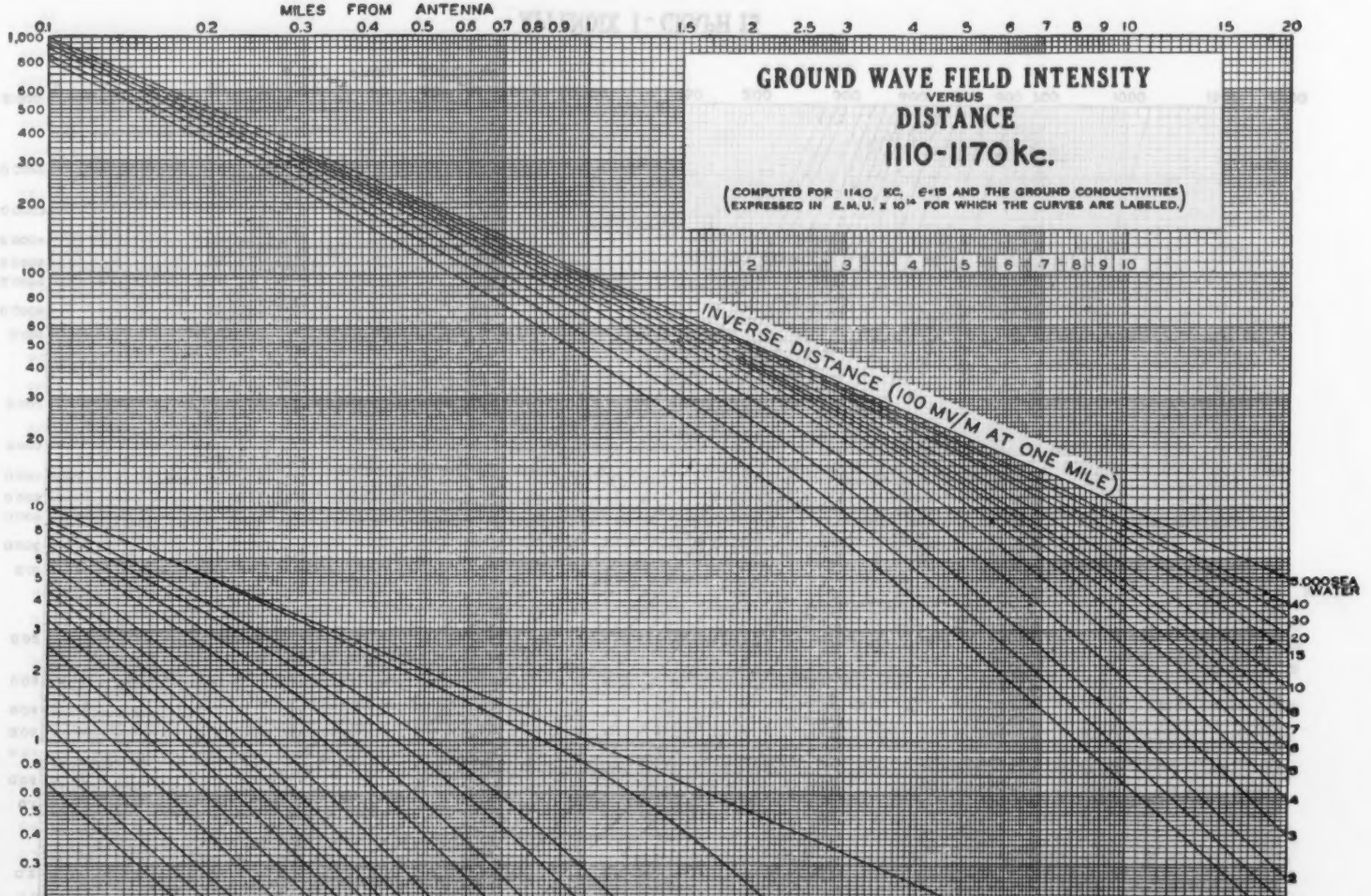


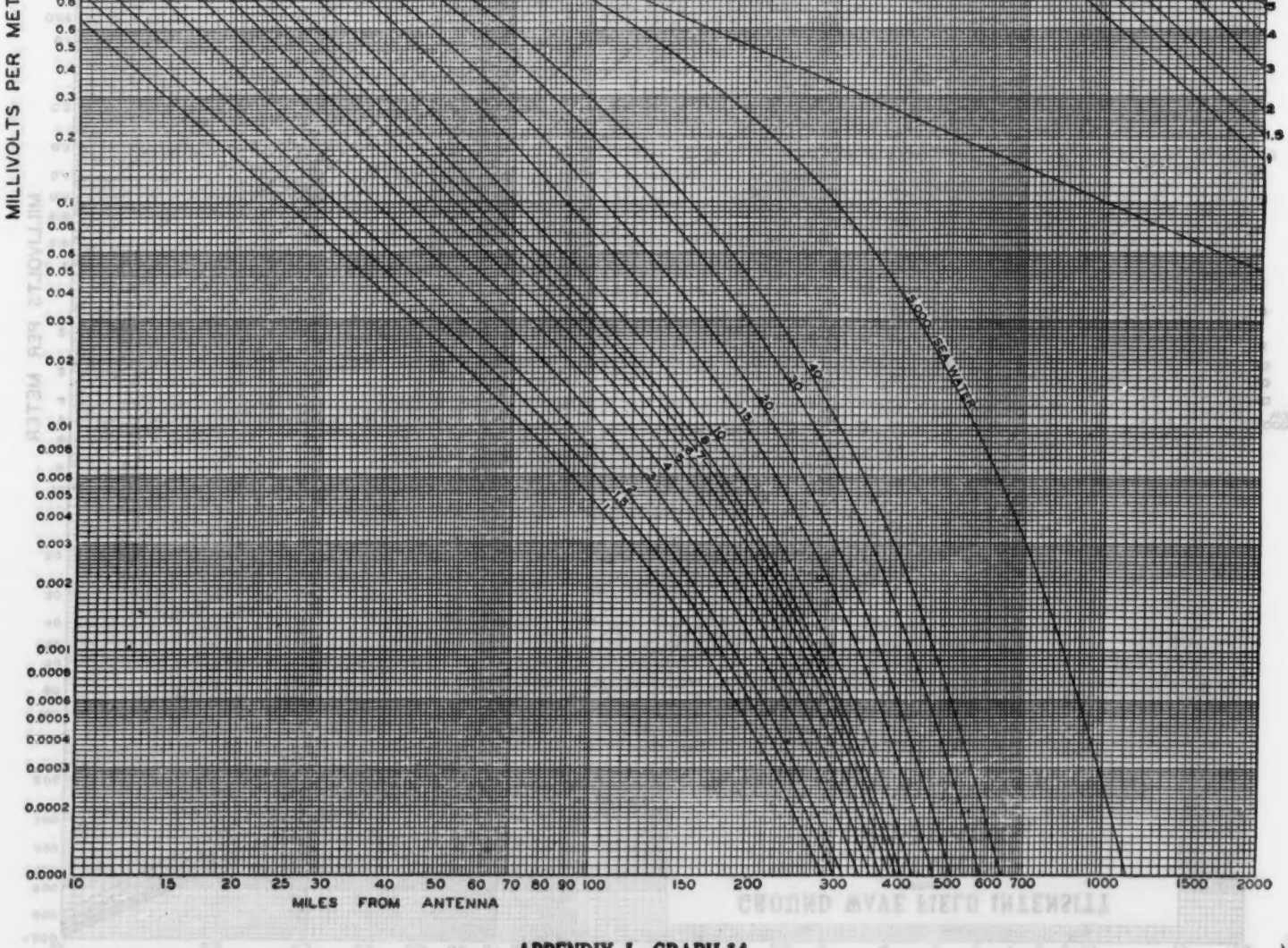
APPENDIX 1 - GRAPH 12


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1040-1100 kc.
(COMPUTED FOR 1070 KC. ϵ'=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10¹⁴ FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILES FROM ANTENNA
MILLIVOLTS PER METER
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.5
2
2.5
3
4
5
6
7
8
9
10
15
20
1,000
800
600
500
400
300
200
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
0.8
0.6
0.5
0.4
0.3
0.2
5,000 SEA WATER
40
30
20
15
10
8
7
6
5
4
3
2
1.5
1

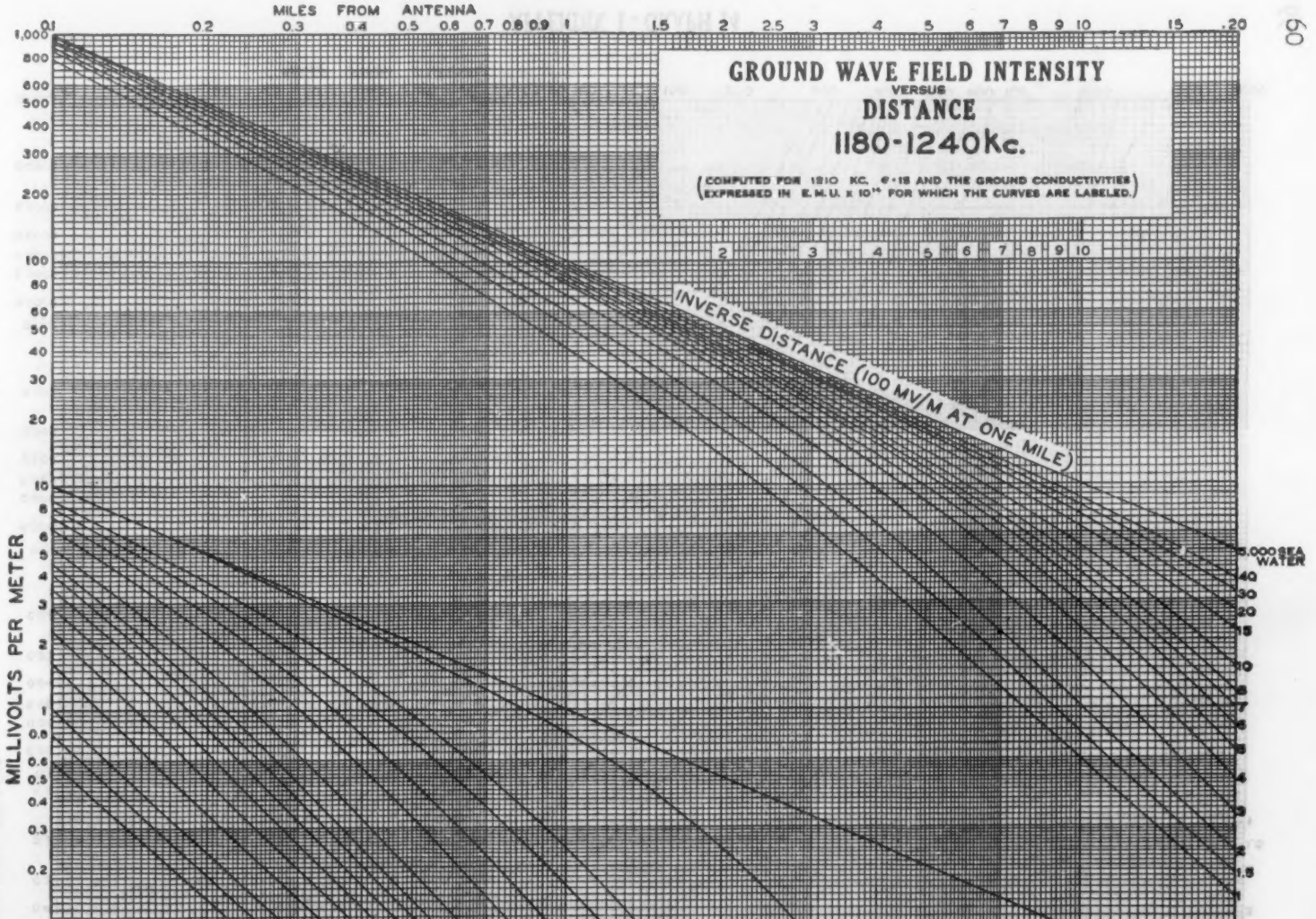


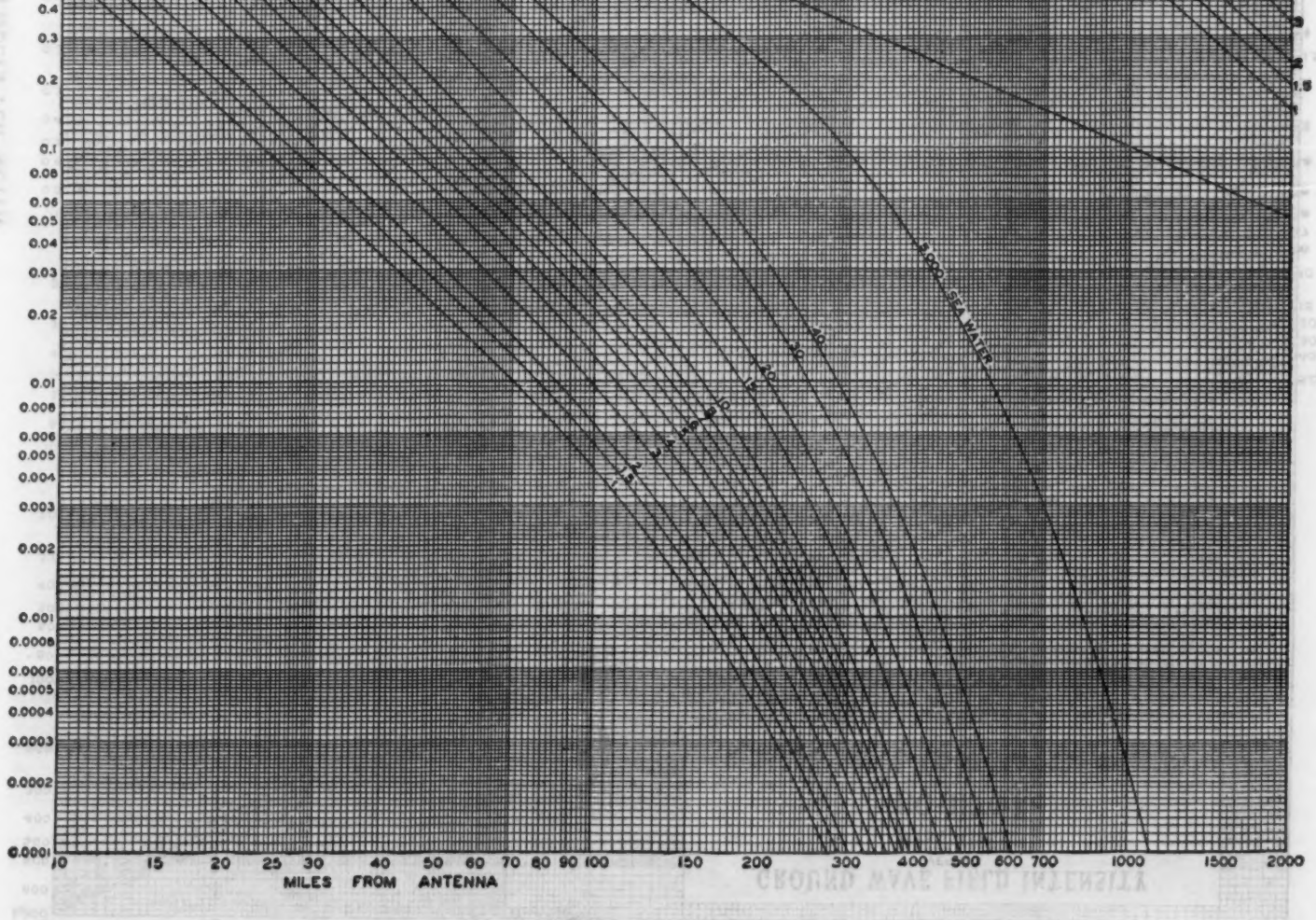
APPENDIX I - GRAPH 13


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1110-1170 kc.
(COMPUTED FOR 1140 KC. ε=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^13 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
1,000 600 500 400 300 200 100 80 60 50 40 30 20 10 8 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3
40 30 20 15 10 8 7 6 5 4 3 2
TS PER METER

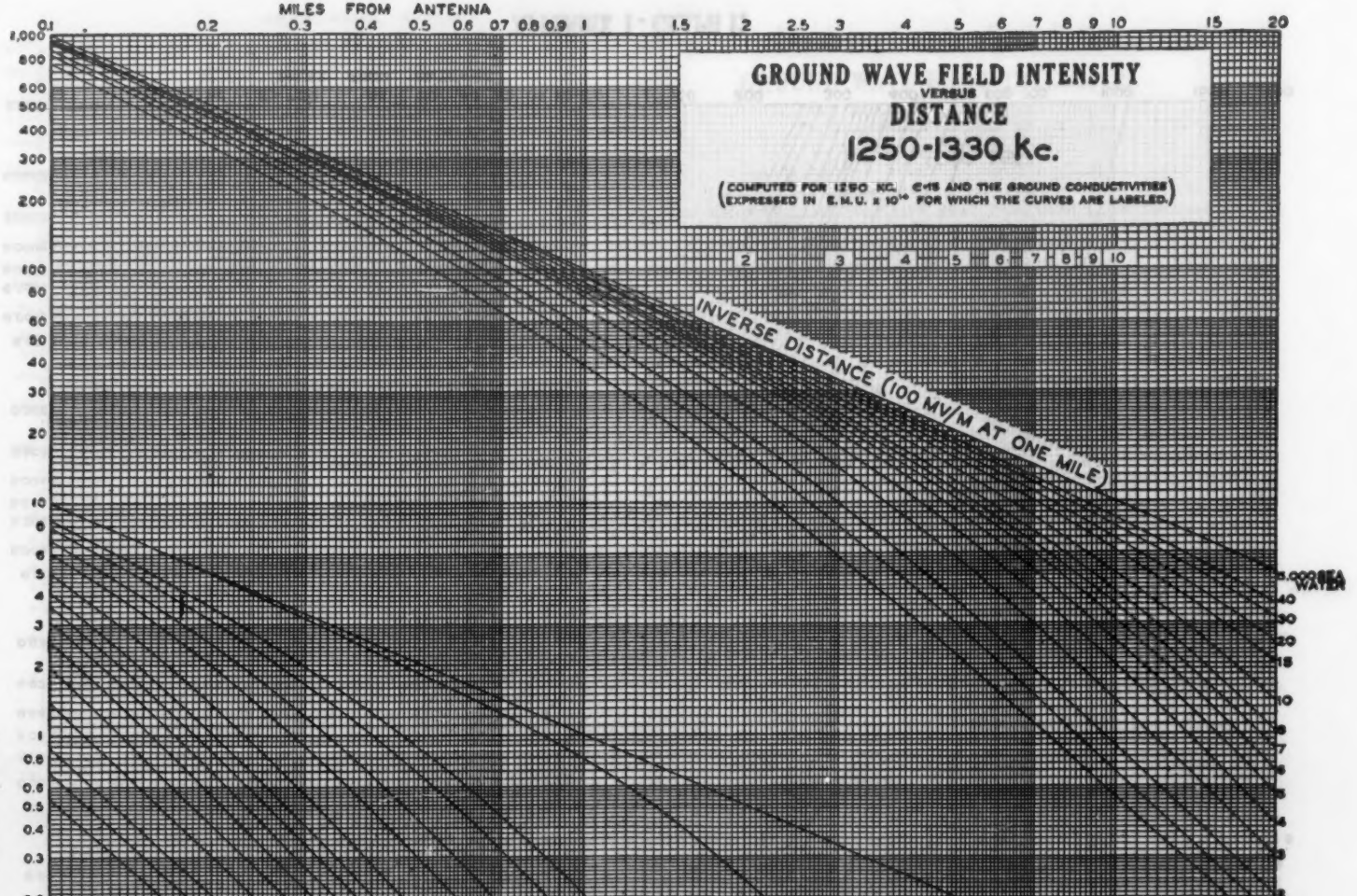


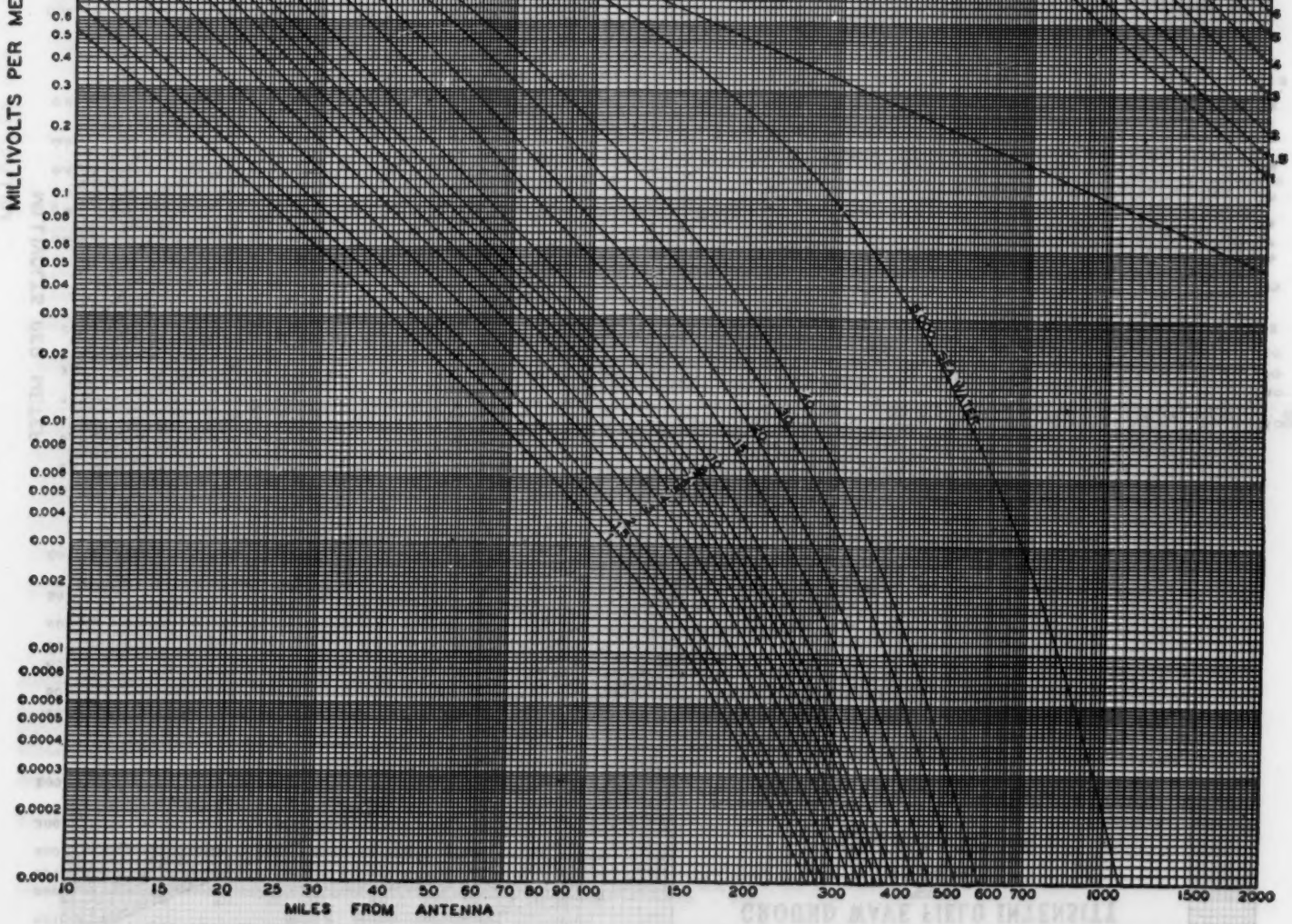
APPENDIX I - GRAPH 14


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1180-1240kc.
(COMPUTED FOR 1210 KC. σ·15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10¹³ FOR WHICH THE CURVES ARE LABELED.)
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILLIVOLTS PER METER
MILES FROM ANTENNA
5,000 SEA WATER

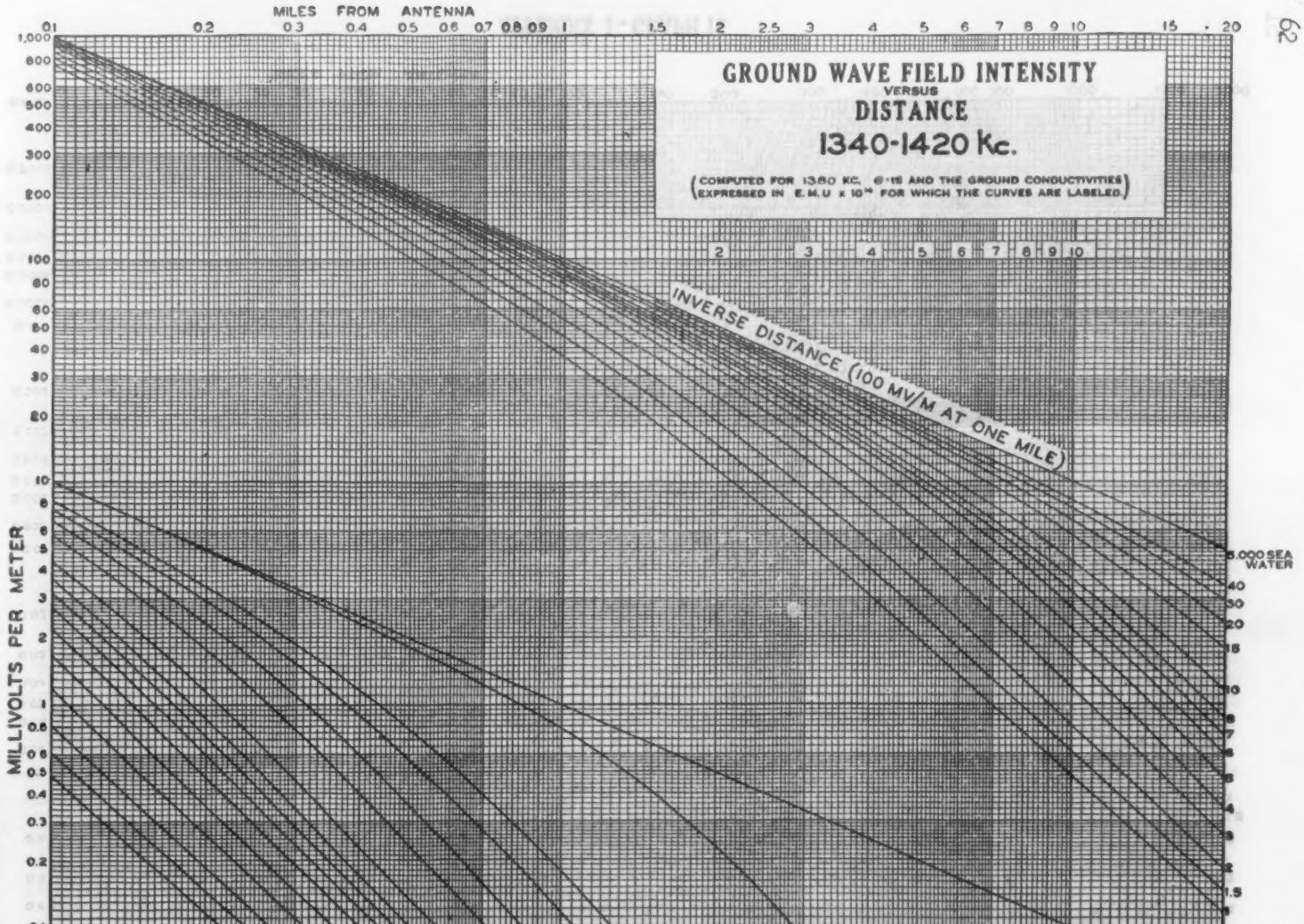


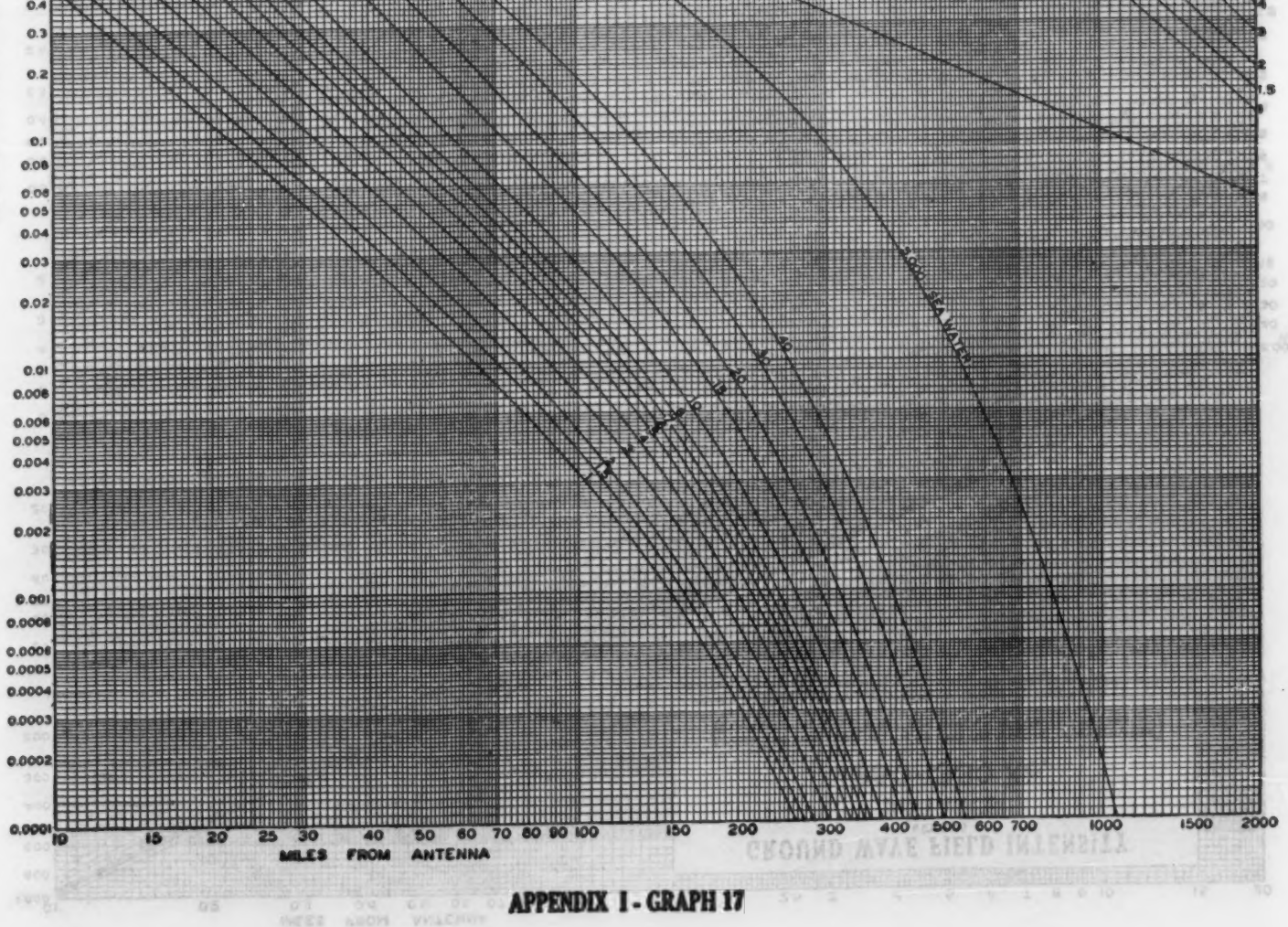
APPENDIX I - GRAPH 15


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1250-1330 Kc.
(COMPUTED FOR 1250 KC. C=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
2,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3
TS PER METER

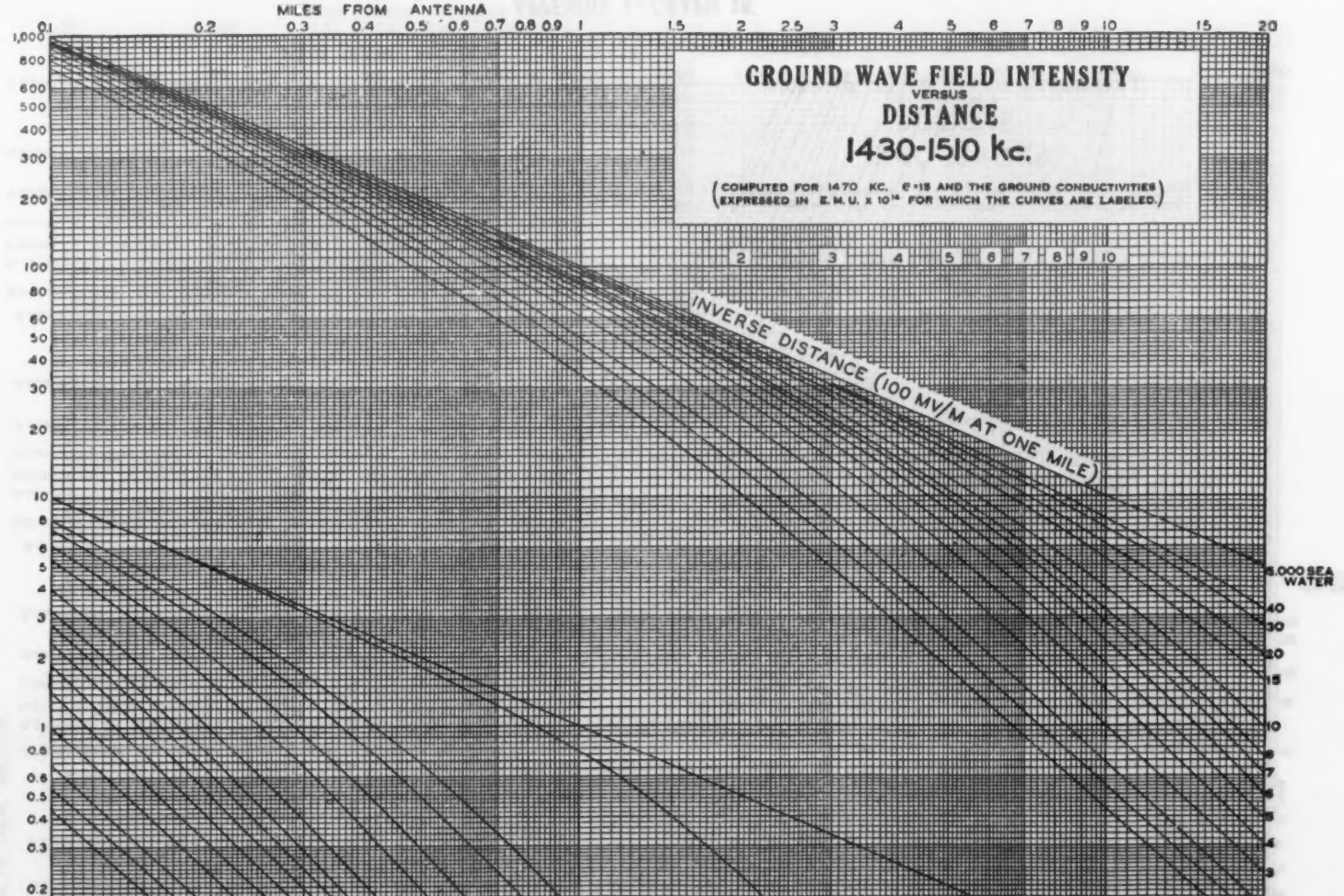


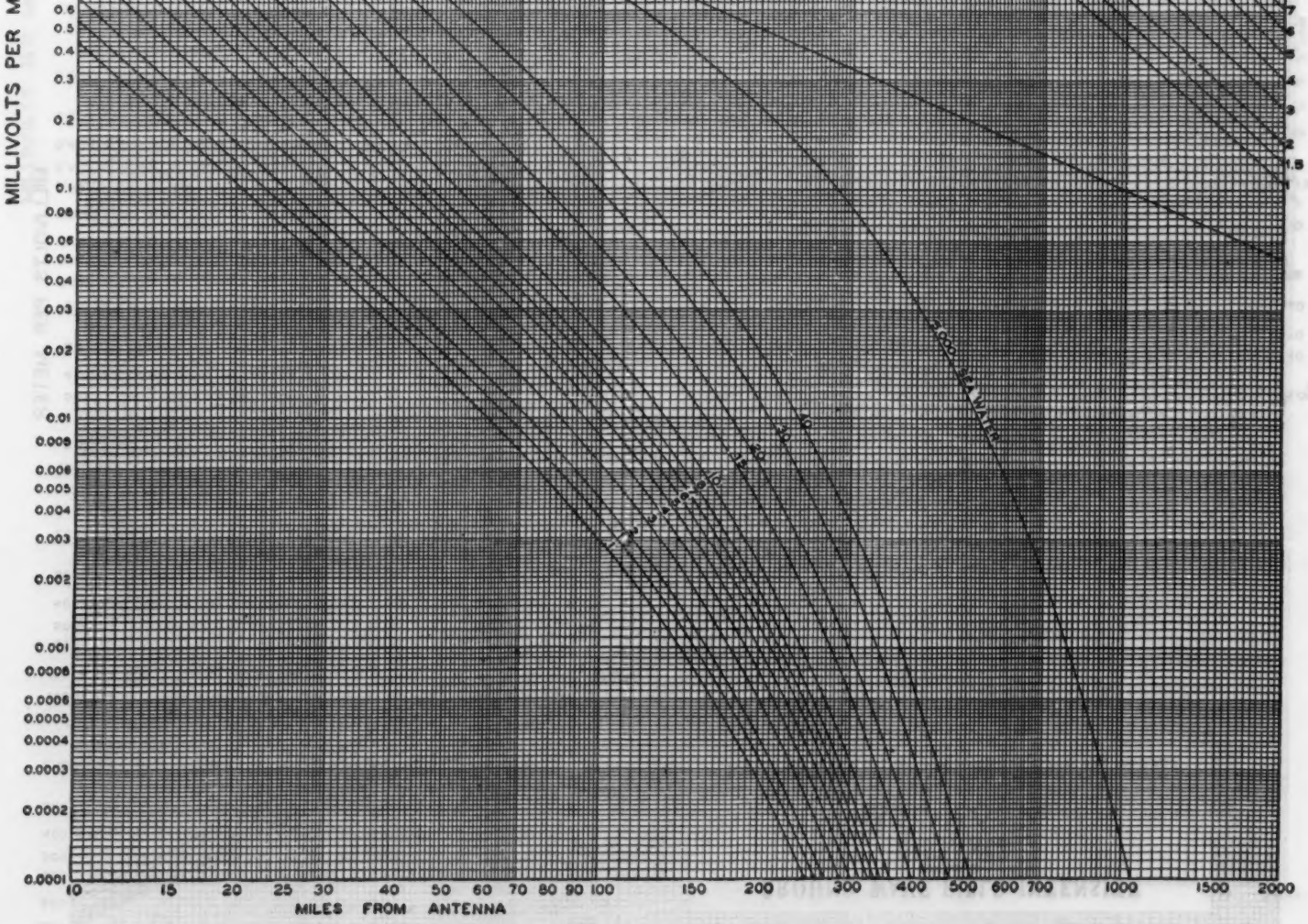
APPENDIX I - GRAPH 16


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1340-1420 Kc.
(COMPUTED FOR 1380 KC, Φ=15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U x 10¹⁴ FOR WHICH THE CURVES ARE LABELED.)
MILES FROM ANTENNA
MILLIVOLTS PER METER
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER

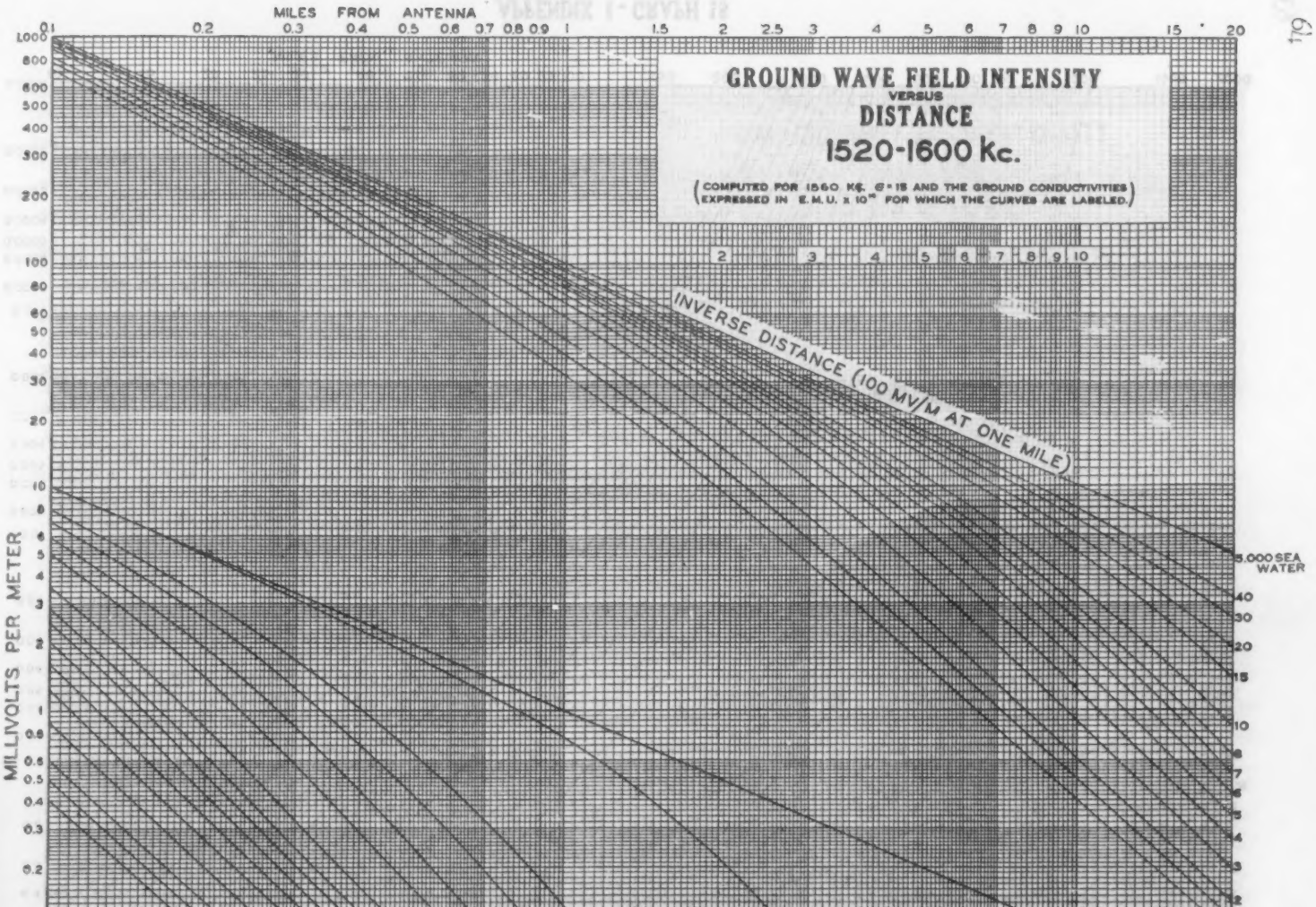


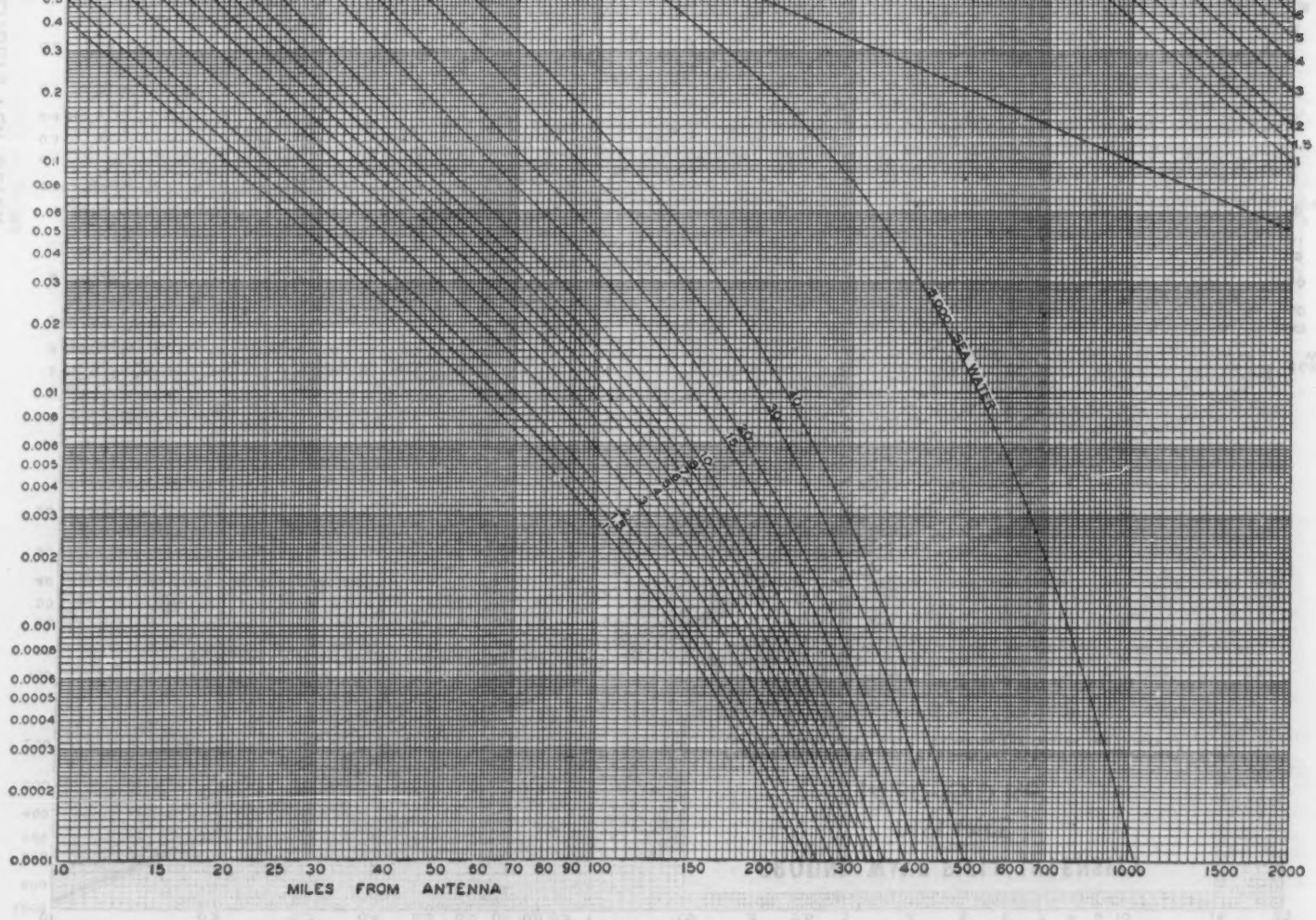
APPENDIX I - GRAPH 17


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1430-1510 kc.
(COMPUTED FOR 1470 KC. ε=15 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
40 30 20 15 10 8 7 6 5 4 3
1,000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3 0.2
VOLTS PER METER

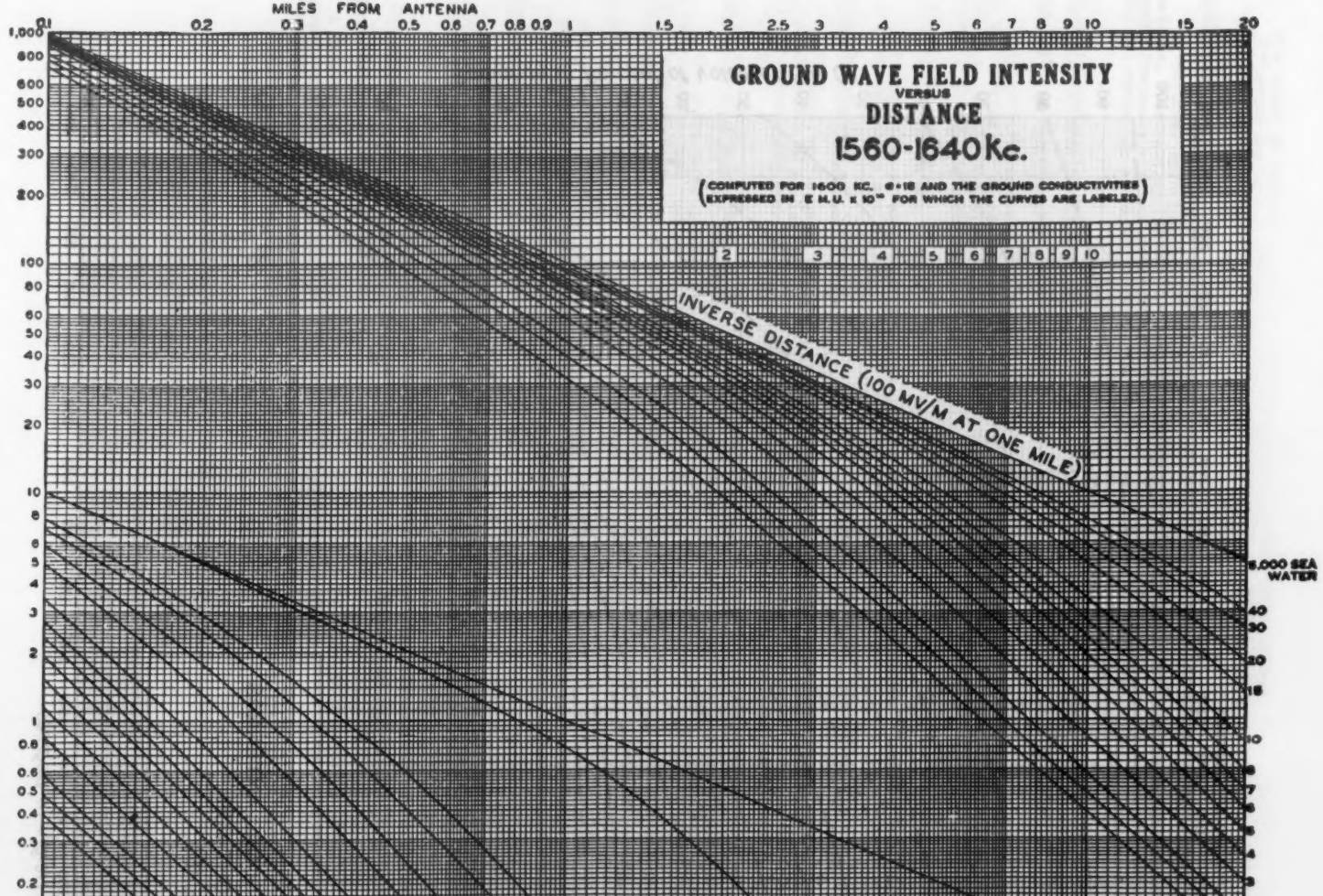


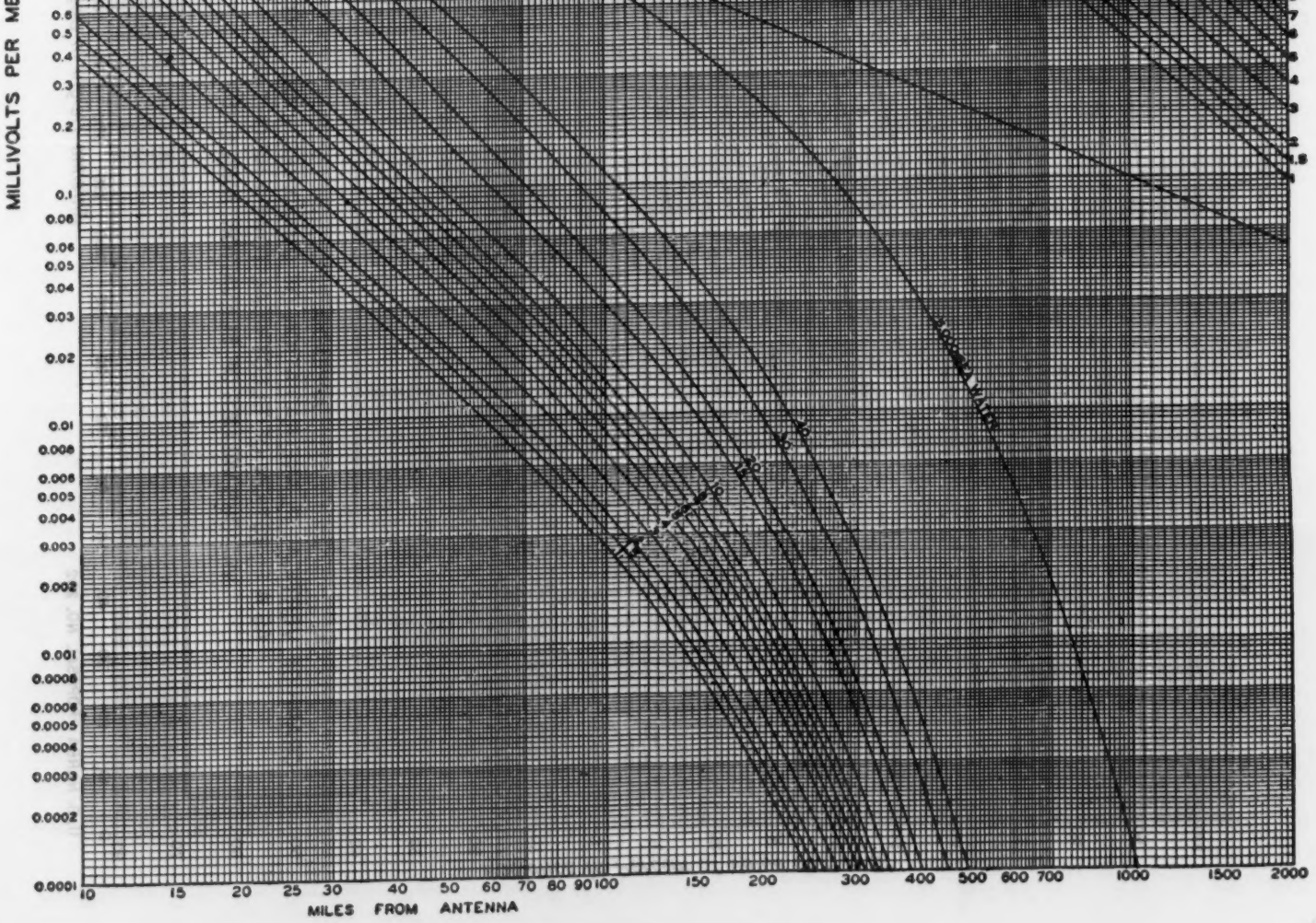
APPENDIX I - GRAPH 18


GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1520-1600 Kc.
(COMPUTED FOR 1560 Kc. G = 15 AND THE GROUND CONDUCTIVITIES EXPRESSED IN E.M.U. x 10^14 FOR WHICH THE CURVES ARE LABELED.)
MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
MILLIVOLTS PER METER
1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 0.8 0.6 0.5 0.4 0.3 0.2
5,000 SEA WATER
40 30 20 15 10 8 7 6 5 4 3 2

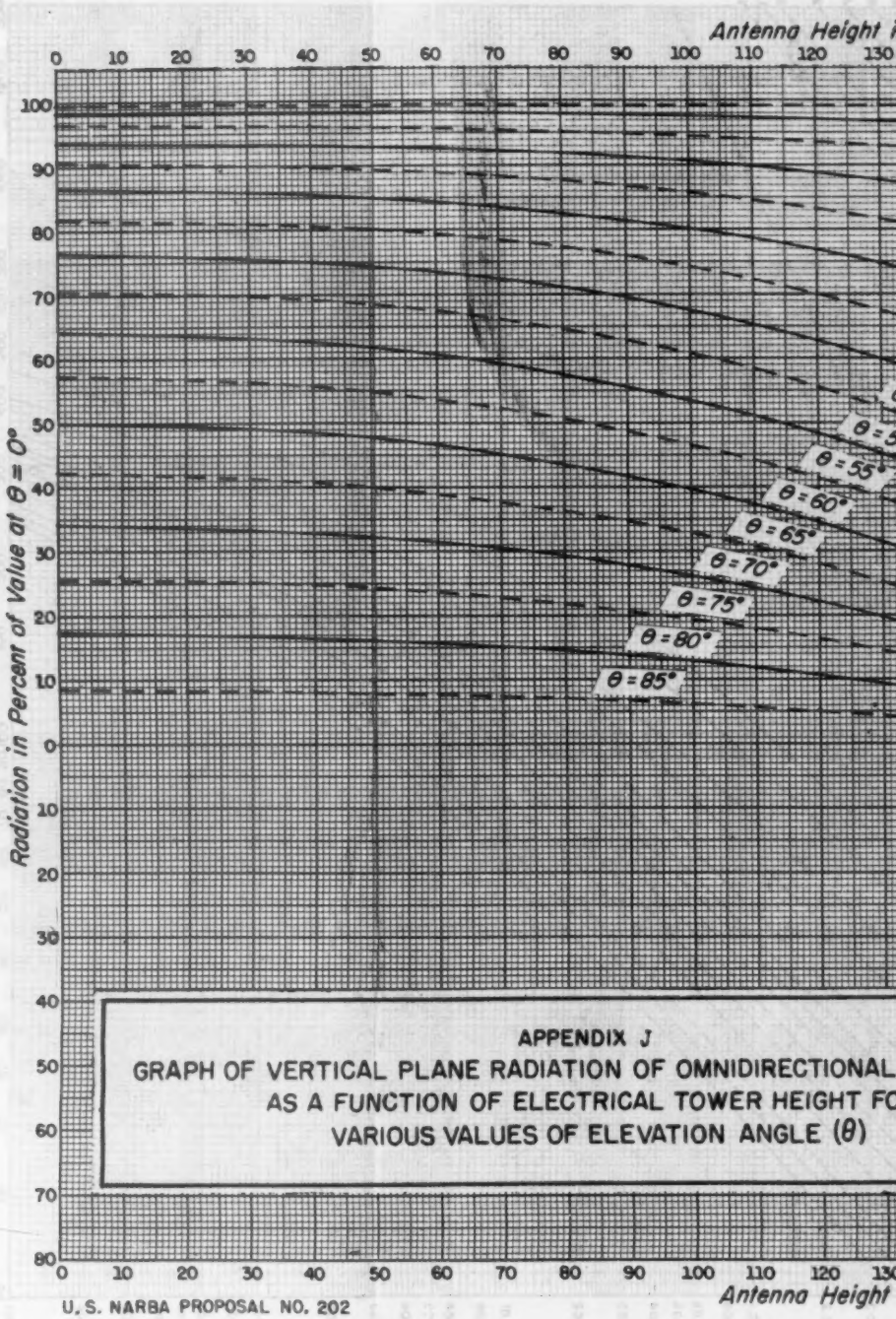


APPENDIX I - GRAPH 19


MILES FROM ANTENNA
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2 2.5 3 4 5 6 7 8 9 10 15 20
GROUND WAVE FIELD INTENSITY
VERSUS
DISTANCE
1560-1640 Kc.
(COMPUTED FOR 1600 KC. Φ=18 AND THE GROUND CONDUCTIVITIES (EXPRESSED IN E.M.U. x 10^13 FOR WHICH THE CURVES ARE LABELED.)
2 3 4 5 6 7 8 9 10
INVERSE DISTANCE (100 MV/M AT ONE MILE)
5,000 SEA WATER
1,000
800
600
500
400
300
200
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
0.8
0.6
0.5
0.4
0.3
0.2
VOLTS PER METER



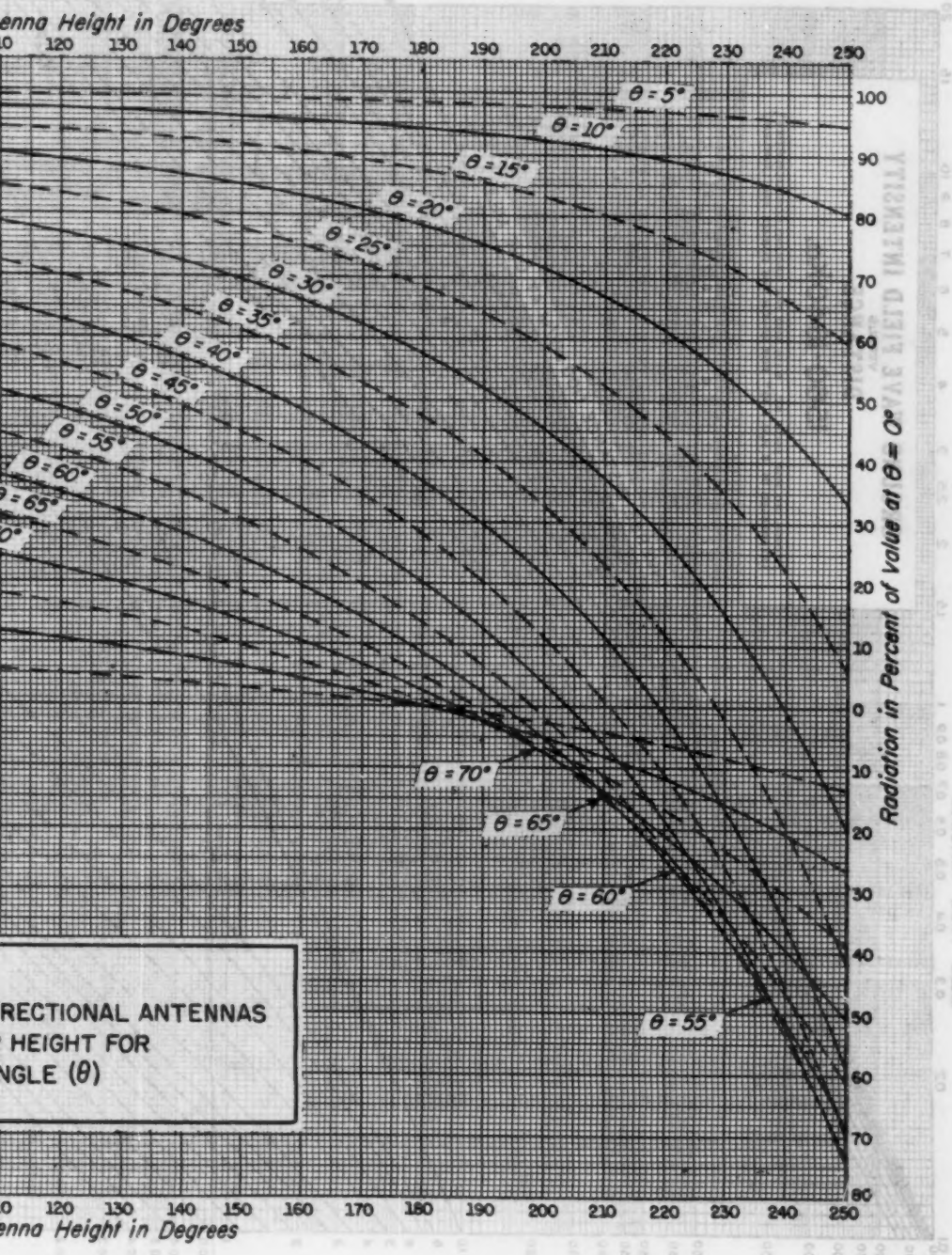
APPENDIX I - GRAPH 20



APPENDIX J

GRAPH OF VERTICAL PLANE RADIATION OF OMNIDIRECTIONAL
AS A FUNCTION OF ELECTRICAL TOWER HEIGHT FO
VARIOUS VALUES OF ELEVATION ANGLE (θ)

U. S. NARBA PROPOSAL NO. 202


enna Height in Degrees
θ = 5°
θ = 10°
θ = 15°
θ = 20°
θ = 25°
θ = 30°
θ = 35°
θ = 40°
θ = 45°
θ = 50°
θ = 55°
θ = 60°
θ = 65°
θ = 70°
θ = 65°
θ = 60°
θ = 55°
Radiation in Percent of Value at θ = 0°
RECTIONAL ANTENNAS
HEIGHT FOR
NGLE (θ)
enna Height in Degrees

APPENDIX K

ABBREVIATIONS

kc/s	-	kilocycles per second
W	-	watts
kW	-	kilowatts
U	-	unlimited time (day and night)
D	-	day-time only
N	-	night-time only
S	-	shared hours of operation with other co-channel broadcasting stations when used in connection with the operating hours of a broadcasting station
S.H.	-	specified hours of operation
ND	-	omnidirectional or non-directional
PO	-	present operation
mV/m	-	millivolts per meter
uV/m	-	microvolts per meter
f	-	frequency
θ	-	angle above horizon
MEOV	-	maximum expected operating value
RSS	-	root sum square
SYNC	-	synchronous operation
DA-1	-	directional antenna: the digit indicates same pattern but not necessarily the same power day and night.
DA-2	-	directional antenna: the digit indicates different patterns day and night, with either the same or different power day and night.
DA-N	-	directional antenna: the "N" indicates directional antenna used for night-time operation only; omnidirectional day.
DA-D	-	directional antenna: the "D" indicates directional antenna used for day-time operation only.
e.m.u.	-	electro-magnetic unit
δ	-	conductivity
Vide	-	see assignment on

FINAL PROTOCOL

To the

North American Regional Broadcasting Agreement

Washington, D. C., 1950

At the time of signing the North American Regional Broadcasting Agreement, Washington, D. C., (1950), the undersigned Plenipotentiaries take note of the following reservations:

For Cuba:

The Delegation of Cuba, considering that this Agreement provides technical formulae which offer appropriate protection at the boundary of the country for which there is a recognized priority for Class I-A broadcasting stations, declares on signing this Agreement that it makes formal reservation and does not accept any obligation with reference to the provision of Note (3), Appendix B, Annex 2 which contains the so-called "650 mile rule".

For Dominican Republic:

The Delegation of the Dominican Republic, in accepting the "650 mile rule" established in Note (3), Appendix B, Annex 2, declares that it undertakes no obligation in regard to the application of said rule in respect to Class I-A stations which, in accordance with the provisions set forth in the Note of Appendix A, of said Annex 2, may be situated in Puerto Rico or the Virgin Islands.

IN WITNESS WHEREOF, the respective Plenipotentiaries have signed this Final Protocol of Signature in the English, Spanish and French languages, in a single copy which shall be deposited in the archives of the Government of Canada. The texts in each language shall be equally valid. An authentic copy thereof shall be forwarded by the Government of Canada to the Government of each country in the North American Region, to the Secretary General of the International Telecommunication Union and to the Agency performing the notification exchange function.

DONE at Washington, D. C., this fifteenth day of November, 1950.

(The signatures following the Final Protocol are the same as those which follow the Agreement.)

ANNEX 3

Initial Broadcasting Station Assignment List

Bahama Islands
Canada
Cuba
Dominican Republic
Jamaica
United States of America
Haiti
Mexico

Unless otherwise indicated in this Annex, the Class I and II stations listed herein are to receive protection in accordance with Appendix B of Annex 2, without regard to the provision of Note (5) thereof, from changed or additional assignments made on Class I-A clear channels by the country having the Class I-A priority.

BAHAMA ISLANDS

ISLAS BAHAMAS

ILES BAHAMA

FREQUENCY / FRECUENCIA / FREQUENCE KC/S	CALL LETTERS / LETRAS DE LLAMADA / INDICATIF D'APPEL	STATION / ESTACIÓN / STATION	POWER / POTENCIA / PUISSANCE KW	ANTENNA / ANTENA / ANTENNE	SCHEDULE / HORARIO / HORAIRE	CLASS / CLASE / CLASSE	OBSERVATIONS / OBSERVACIONES / OBSERVATIONS
1540	ZNS	Nassau, Bahamas	5	ND	U	I-A	

CANADA

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
540	CBK	Watrous, Sask.	50	ND	U	I-A	
550	CKPG	Prince George, B.C.	0.25	ND	U	IV	
	CFNB	Fredericton, N.B.	5	DA-N	U	III	
	CHLN	Three Rivers, Que.	1	DA-2	U	III	
560	CJKL	Kirkland Lake, Ont.	5	DA-N	U	III	
	CFRA	Ottawa, Ont.	1	DA-2	U	III	
570	CHGB	S. Anne de la Pocatière, Que.	1	DA-N	U	III	1
580	CKUA	Edmonton, Alta.	1	ND	U	III	
	CKY	Winnipeg, Man.	5	DA-2	U	III	2
	CJFX	Antigonish, N.S.	5	DA-1	U	III	
	CKPR	Fort William, Ont.	1	ND	U	III	
	CKEY	Toronto, Ont.	5 D 1 N	DA-2	U	III	
590	CFAR	Flin Flon, Man.	1	ND	U	III	
	VOCM	S. John's, Nfld.	1	ND	U	III	3
600	CJOR	Vancouver, B.C.	5	DA-1	U	III	
	CFCH	North Bay, Ont.	1	DA-1	U	III	
	CFCF	Montreal, Que.	5	DA-1	U	III	
	CFQC	Saskatoon, Sask.	5	DA-N	U	III	
610	CJAT	Trail, B.C.	1	ND	U	III	
	CHNC	New Carlisle, Que.	5	DA-1	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
620	CKTB	S. Catharines, Ont.	1		DA-1	U	III	
	CKCK	Regina, Sask.	5		DA-N	U	III	
630	CKOV	Kelowna, B.C.	1		ND	U	III	
	CKRC	Winnipeg, Man.	5		DA-N	U	III	
	CFCO	Chatham, Ont.	1		DA-1	U	III	
	CFCY	Charlottetown, P.E.I.	5		DA-N	U	III	
640	CBN	S. John's, Nfld.	10		ND	U	I-B	
680	CHFA	Edmonton, Alta.	5		DA-1	U	II	
	CHLO	S. Thomas, Ont.	1		DA-1	U	II	
	CKGB	Timmins, Ont.	5		DA-N	U	II	
690	CBF	Montreal, Que.	50		ND	U	I-A	
	New	British Columbia	50		DA	U	II	
700	VOWR	S. John's, Nfld.	0.5		DA-N	U	II	18
710	CKVM	Ville Marie, Que.	1		DA-N	U	II	
730	CKAC	Montreal, Que.	10	D	ND	U	II	
			5	N				
740	CBL	Toronto, Ont.	50		ND	U	I-A	
	New	Alberta	50		DA	U	II	
790	CBY	Corner Brook, Nfld.	1		ND	U	III	
	CKSO	Sudbury, Ont.	5		DA-N	U	III	
800	CKOC	Penticton, B.C.	1	D	ND	U	II	4
			0.5	N				
	CKLW	Windsor, Ont.	50		DA-2	U	II	
	CJAD	Montreal, Que.	5		DA-1	U	II	
	CHRC	Quebec, Que.	5		DA-1	U	II	
	CHAB	Moose Jaw, Sask.	5		DA-1	U	II	
860	CJBC	Toronto, Ont.	50		ND	U	I-A	
900	CJVI	Victoria, B.C.	1		DA-1	U	II	
	CHML	Hamilton, Ont.	5		DA-N	U	II	

FREQUENCY FRECUENCIA FRÉQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
900 (Cont.)	CJBR	Rimouski, Que.	5	DA-N	U	II	
	CHLT	Sherbrooke, Que.	1	DA-N	U	II	
	CKBI	Prince Albert, Sask.	5	DA-2	U	II	
910	CFJC	Kamloops, B.C.	1	ND	U	III	
	CBO	Ottawa, Ont.	1	ND	U	III	
920	CJCH	Halifax, N.S.	5	DA-1	U	III	
	CKNX	Wingham, Ont.	1	DA-N	U	III	
930	CJCA	Edmonton, Alta.	5	DA-N	U	III	
	CFBC	S. John, N.B.	5	DA-1	U	III	
940	CJIB	Vernon, B.C.	1	ND	U	II	
	CBM	Montreal, Que.	50	ND	U	I-B	
	CJGX	Yorkton, Sask.	1	ND	U	II	
950	CKNB	Campbellton, N.B.	1	DA-1	U	III	
960	CFAC	Calgary, Alta.	5	DA-N	U	III	
	CHNS	Halifax, N.S.	5	DA-N	U	III	
	CKWS	Kingston, Ont.	5	DA-1	U	III	
970	CKCH	Hull, Que.	1	DA-1	U	III	
980	CKWX	Vancouver, B.C.	5	DA-1	U	III	
	CFPL	London, Ont.	5	DA-2	U	III	
	CBV	Quebec, Que.	1	ND	U	III	
	CKVL	Verdun, Que.	1	DA-1	U	III	
	CKRM	Regina, Sask.	5	DA-N	U	III	
990	CBW	Winnipeg, Man.	50	ND	U	I-A	
1000	CKBW	Bridgewater, N.S.	1	DA-N	U	II	
	VOCM	S. John's, Nfld.	0.25	ND	U	II	5
1010	CBX	Lacombe, Alta.	50	DA-1	U	I-A	6
	CFRB	Toronto, Ont.	50	DA-2	U	II	
1050	CFGP	Grande Prairie, Alta.	1	ND	U	II	
	CHUM	Toronto, Ont.	1	ND	D	II	

75118 O—51—Ex. A——5

1060 - 1240 kc/s

Canada

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1060	CFCN	Calgary, Alta.	10	DA-N	U	II	
1070	CBA	Sackville, N.B.	50	ND	U	I-B	7
	CHOK	Sarnia, Ont.	5 D 1 N	DA-N	U	II	
1130	CBR	Vancouver, B.C.	10	DA-1	U	I-B	19
1140	CKXL	Calgary, Alta.	1	DA-N	U	II	21
1150	CKX	Brandon, Man.	1	ND	U	III	
	CHSJ	S. John, N.B.	5	DA-N	U	III	
	CKOC	Hamilton, Ont.	5	DA-1	U	III	
1220	CJOC	Lethbridge, Alta.	5	DA-N	U	II	
	CKCW	Moncton, N.B.	5	DA-N	U	II	
	CJRL	Kenora, Ont.	1	ND	U	II	
	CKSM	Shawinigan Falls, Que	1	DA-1	U	II	
1230	CKRD	Red Deer, Alta.	0.25	ND	U	IV	
	CHWK	Chilliwack, B.C.	0.25	ND	U	IV	17
	CHFC	Churchill, Man.	0.25	ND	U	IV	PO: 0.1 kW.
	CJEM	Edmundston, N.B.	0.25	ND	U	IV	
	CKBB	Barrie, Ont.	0.25	ND	U	IV	
	CJBQ	Belleville, Ont.	0.25	ND	U	IV	
	CKSF	Cornwall, Ont.	0.25	ND	U	IV	
	CFPA	Port Arthur, Ont.	0.25	ND	U	IV	
	CKLD	Thetford Mines, Que.	0.25	ND	U	IV	
	VOAR	S. John's, Nfld.	0.25	ND	U	IV	PO: 0.1 kW.
	CKVD	Val d'Or, Que.	0.25	ND	U	IV	
	New	Dauphin, Man.	0.25	ND	U	IV	
1240	CKLN	Nelson, B.C.	0.25	ND	U	IV	
	CJAV	Port Alberni, B.C.	0.25	ND	U	IV	
	CFPR	Prince Rupert, B.C.	0.25	ND	U	IV	
	CFNW	Norman Wells, N.W.T.	0.25	ND	U	IV	PO: 0.1 kW.
	CKLB	Oshawa, Ont.	0.1	ND	U	IV	
	CJCS	Stratford, Ont.	0.25	ND	U	IV	
	CJRW	Summerside, P.E.I.	0.25	ND	U	IV	
	CKRS	Jonquieres, Que.	0.25	ND	U	IV	
	CKLS	La Sarre, Que.	0.25	ND	U	IV	
	CKTS	Sherbrooke, Que.	0.25	ND	U	IV	
	CJNB	North Battleford, Sask.	0.25	ND	U	IV	8

1250 - 1400 kc/s

Canada

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1250	CKSB	S. Boniface, Man.	1	DA-1	U	III	
	CKBL	Matane, Que.	1	DA-1	U	III	
1260	CFRN	Edmonton, Alta.	5	ND	U	III	
1270	CHAT	Medicine Hat, Alta.	1	DA-1	U	III	
	CHWK	Chilliwack, B.C.	1	DA-1	U	III	9, 20
	CJCB	Sydney, N.S.	5 D 1 N	ND	U	III	
1280	CKCV	Quebec, Que.	1	DA-N	U	III	
1310	CKOY	Ottawa, Ont.	5 D 1 N	DA-N	U	III	
1320	CKNW	New Westminster, B.C.	1	DA-N	U	III	
	CJSO	Sorel, Que.	1	DA-N	U	III	
1330	CBH	Halifax, N.S.	0.1	ND	U	IV	
1340	CKDA	Victoria, B.C.	0.25	ND	U	IV	
	CFGB	Goose Bay, Lab.	0.25	ND	U	IV	
	CFBM	Brochet, Man.	0.25	ND	U	IV	PO: 0.1 kW.
	CJOB	Winnipeg, Man.	0.25	ND	U	IV	
	CKMR	Newcastle, N.B.	0.25	ND	U	IV	
	CJLS	Yarmouth, N.S.	0.25	ND	U	IV	
	CKFI	Fort Frances, Ont.	0.25	ND	U	IV	
	CKOX	Woodstock, Ont.	0.25	ND	U	IV	
	CHAD	Amos, Que.	0.25	ND	U	IV	
	CJNT	Quebec, Que.	0.25	ND	U	IV	
	CHRL	Roberval, Que.	0.25	ND	U	IV	
1350	CJDC	Dawson Creek, B.C.	1	ND	U	III	
	CBT	Grand Falls, Nfld.	1	ND	U	III	
	CHOV	Pembroke, Ont.	1	DA-1	U	III	
	CHGB	S. Anne de la Pocatière, Que.	1	DA-N	U	III	10
1380	CKPC	Brantford, Ont.	1	DA-N	U	III	
1400	CKCL	Truro, N.S.	0.25	ND	U	IV	
	CJFP	Rivière du Loup, Que.	0.25	ND	U	IV	
	CKRN	Rouyn, Que.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1400 Cont.)	CFYT	Dawson, Yukon Terr.	0.25	ND	U	IV	PO: 0.1 kW.
1410	CKMO	Vancouver, B.C.	1	ND	U	III	
	CHLP	Montreal, Que.	1	DA-1	U	III	
1430	CHEX	Peterborough, Ont.	1	DA-1	U	III	
1440	CHNO	Sudbury, Ont.	1	DA-1	U	III	
1450	CBG	Gander, Nfld.	0.25	ND	U	IV	
	CFYK	Yellowknife, N.W.T.	0.25	ND	U	IV	PO: 0.15 kW.
	CFAB	Windsor, N.S.	0.25	ND	U	IV	
	CFJR	Brockville, Ont.	0.25	ND	U	IV	
	CJOY	Guelph, Ont.	0.25	ND	U	IV	
	CFOR	Orillia, Ont.	0.25	ND	U	IV	11
	CHEF	Granby, Que.	0.25	ND	U	IV	
1460	CJNB	North Battleford, Sask.	1	ND	U	III	12
1470	CFOS	Owen Sound, Ont.	1	DA-N	U	III	
1480	CHUB	Nanaimo, B.C.	1	DA-1	U	III	13, 20
	VOUS	Fort Pepperrel, Nfld.	0.5	ND	U	III	
1490	CFHR	Hay River, N.W.T.	0.25	ND	U	IV	PO: 0.1 kW.
	CKEN	Kentville, N.S.	0.25	ND	U	IV	
	CFRC	Kingston, Ont.	0.25	ND	U	IV	
	CKCR	Kitchener, Ont.	0.25	ND	U	IV	
	CJIC	Sault S. Marie, Ont.	0.25	ND	U	IV	14
	VOHF	Harmon Field, Nfld.	0.25	ND	U	IV	PO: 0.05 kW.
1550	CBE	Windsor, Ont.	10	DA-1	U	I-B	
1570	CHUB	Nanaimo, B.C.	0.25	ND	U	II	15
	CBI	Sydney, N.S.	1	ND	U	II	
	CFOR	Orillia, Ont.	1	ND	U	II	16
1580	CBJ	Chicoutimi, Que.	10	DA-1	U	I-A	
1600	CHVC	Niagara Falls, Ont.	5 D 1 N	DA-N	U	III	

OBSERVATIONS
OBSERVACIONES
OBSERVATIONS

1 - PO: 1350 kc/s, 1 kW, DA-N.

2 - Temporary Operation:
Funcionamiento provisional en: 1 kW N, 5 kW D, DA-2.
Exploitation temporaire:

3 - PO: 0.25 kW, 1000 kc/s.

4 - Temporary Operation:
Funcionamiento provisional en: 0.25 kW.
Exploitation temporaire:

5 - Vide: 590 kc/s, 1 kW, ND.

6 - With regard to the use of the clear channel 1010 kc/s by a Class I-A station in Canada, and by a Class I-B station in Cuba, both countries mutually agree that the interfering signal from the Cuban I-B station shall not exceed for 10% of the time the value of 50 uV/m at any point West of the Province of Manitoba in Canada.

En lo que se refiere al uso del canal despejado 1010 kc/s en una estación de la Clase I-A en Canadá y en una estación de la Clase I-B en Cuba, ambos países están de acuerdo en que la señal interferente desde la estación I-B cubana no excederá en el 10% del tiempo, el valor de 50 uV/m, en ningún lugar situado al Oeste de la provincia de Manitoba en Canadá.

En ce qui concerne l'usage de la voie libre 1010 kc/s par une station de la classe I-A au Canada, et par une station de la classe I-B à Cuba, les deux pays sont convenus que le signal brouilleur provenant de la station cubaine de la classe I-B ne dépassera pas pendant 10% du temps la valeur de 50 uV/m en un lieu quelconque du Canada situé à l'Ouest de la province du Manitoba.

7 - The Canadian I-B assignment on 1070 kc/s is subject to considerable local receiver oscillation interference due to nearby assignments on 610 kc/s and 630 kc/s. The existence of this problem is recognized and it is agreed that Canada and the United States of America will negotiate bilaterally for a possible change in frequency for this assignment.

La asignación canadiense I-B en 1070 kc/s está sujeta a una considerable interferencia oscilatoria en el receptor local debida a las asignaciones cercanas situadas en los 610 kc/s y 630 kc/s. Se reconoce la existencia de este problema y se está de acuerdo en que Canadá y los Estados Unidos de América negociarán bilateralmente para conseguir un posible cambio de frecuencia para esta asignación.

L'assignation de la fréquence 1070 kc/s à la station canadienne de la classe I-B est sujette à des interférences considérables dues aux oscillations locales des récepteurs, en raison de l'assignation des fréquences 610 kc/s et 630 kc/s à des stations situées dans le voisinage. L'existence de ce problème est reconnue et il est convenu que le Canada et les Etats-Unis d'Amérique conduiront des négociations bilatérales en vue d'un changement éventuel de fréquence pour cette assignation.

Canada

8 - Vide: 1460 kc/s, 1 kW, ND.

9 - PO: 1230 kc/s, 0.25 kW, ND.

10 - Vide: 570 kc/s, 1 kW, DA-N.

11 - Vide: 1570 kc/s, 1 kW, ND.

12 - PO: 1240 kc/s, 0.25 kW, ND.

13 - PO: 0.25 kW - 1570 kc/s.

14 - It was agreed between the delegates from the United States of America and Canada that if an increase in power beyond that of a local station is contemplated for either Sault Sainte Marie, Ont. or Sault Sainte Marie, Mich., the Department of Transport will advise the Federal Communications Commission, or vice versa, in order that the increase in power of either station may be considered in conjunction with that of the other.

Los delegados de los Estados Unidos de América y Canadá están de acuerdo en que si se proyecta un aumento de potencia superior al de una estación local para Sault Sainte Marie, Ont. o Sault Sainte Marie, Mich., el Departamento de Transportes dará aviso a la Comisión Federal de Comunicaciones o viceversa, para que el aumento de potencia de cualesquiera estación pueda ser considerado conjuntamente con el de la otra.

Il a été convenu entre les délégués des Etats-Unis d'Amérique et les délégués du Canada que si l'on envisage d'augmenter la puissance de Sault Sainte Marie, Ont., ou de Sault Sainte Marie, Mich., au-delà de celle d'une station d'intérêt local, le Département des Transports avisera la Commission Fédérale des Communications, ou vice-versa, afin que l'augmentation de la puissance de l'une ou de l'autre station soit examinée en relation avec celle de l'autre.

15 - Vide: 1480 kc/s, 1 kW, DA-1.

16 - PO: 1450 kc/s, 0.25 kW, ND.

17 - Vide: 1270 kc/s, 1 kW, DA-1.

18 - In agreeing to the Class II priority for this station in Newfoundland on 700 kc/s, the United States of America reserves the right for full use of the Class I-A priority on this broadcasting channel.

Al acordar una prioridad de Clase II para esta estación de Terranova (Nfld.) en 700 kc/s, los Estados Unidos de America se reservan el derecho del uso completo de una prioridad de la Clase I-A en este canal de radiodifusión.

Tout en étant d'accord pour que cette station de Terre-Neuve (Nfld.) jouisse de la priorité de classe II sur 700 kc/s, les Etats-Unis d'Amérique se réservent le droit de faire plein usage de la priorité de classe I-A sur cette voie de radiodiffusion.

19 - Notwithstanding the Canadian I-B priority in the original NARBA, the I-B classification of the U.S.A. assignment KWKH, Shreveport, La., is recognized and in the future Canada will restrict the interference from the Canadian I-B assignment in British Columbia to the equivalent of 10 kW omnidirectional operation.

A pesar de la prioridad I-B canadiense que figura en el antiguo NARBA, se reconoce la clasificación I-B asignada por los E.U.A. a KWKH en Shreveport, La., y en lo sucesivo, Canadá restringirá la interferencia de la asignación canadiense I-B en Columbia Británica al equivalente de 10 kW en operación omnidireccional.

Nonobstant la priorité de classe I-B accordée au Canada dans l'ancien NARBA, le classement de l'assignation de la station américaine KWKH, Shreveport, La., dans la classe I-B est reconnu. Dans l'avenir, le Canada limitera le brouillage causé par l'assignation canadienne de classe I-B en Colombie britannique a l'équivalent de 10 kW en fonctionnement sur antenne non dirigée.

20 - Canada and the United States of America recognize the existence of the unresolved conflict in assignments with respect to this station.

Canadá y los Estados Unidos de América reconocen la existencia del conflicto en las asignaciones con respecto a esta estación aun no resuelto.

Le Canada et les Etats-Unis d'Amérique reconnaissent que les assignations de ces stations sont en conflit et que ce conflit n'a pas été résolu.

21 - Canada and the United States of America recognize the existence of the unresolved problem of interference with respect to CKXL and KSOO.

Canadá y los Estados Unidos de América reconocen la existencia del problema de la interferencia respecto a CKXL y KSOO que está sin resolver.

Le Canada et les Etats-Unis d'Amérique reconnaissent qu'en ce qui concerne CKXL et KSOO, il existe un problème d'interférence qui n'a pas été résolu.

CUBA

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
540	New	Victoria de las Tunas, Ote.	1	ND	U	II	
550	CMW	Habana	10 or 2.5	DA ND	U	I-C	13
560	CMKM	Holguín, Ote.	5	DA	U	III	12
570	CMHI	S. Clara, L.V.	10	DA	U	I-D	7
580	—	Ciego de Avila, Cam.	0.5 D 0.25 N	ND	U	III	6
590	CMCY	Habana	25	DA	U	I-D	14
600	CMKV	Holguín, Ote.	2.5	ND	U	III	
630	CMQ	Habana	25	DA	U	I-D	15
640	CMHQ	S. Clara, L.V.	15	DA	U	I-C	1
660	CMCU	Habana	5	DA	U	II-E	1
670	Filial CMBC	Holguín, Ote.	1	DA	U	II-E	1

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
680	Filial CMBC	Camagüey, Cam.	1	ND	U	II	
690	CMBC	Habana	50	DA	U	I-C	22
730	CMCA	Habana	10	DA	U	II	16
740	CMKJ	Holguín, Ote.	10	DA	U	I-D	8
760	CMCD	Habana	10	DA	U	II-E	1
780	CMHD	S. Clara, L.V.	5	DA	U	II-E	1
790	CMCH	Habana	10	DA	U	III-E	17
800	CMJY	Ciego de Avila, Cam.	1	ND	U	II	
	CMKW	Santiago de Cuba, Ote.	2	ND	U	II	
810	CMHW	S. Clara, L.V.	1 D 0.5 N	ND	U	II	9
830	CMBZ	Habana	5	DA	U	II-E	1
850	CMJB	Camagüey, Cam.	1	ND	U	II	2
860	CMBL	Habana	25	DA	U	I-C	3
900	CMKU	Santiago de Cuba, Ote.	2	ND	U	II	
910	CMCF	Habana	10	DA	U	III-E	18
920	CMAQ	Pinar del Río, P.R.	1	ND	U	III	
	CMJL	Camagüey, Cam.	10	DA	U	I-D	4
930	CMGF	Matanzas, M.	0.25	ND	U	IV	
	CMKN	Santiago de Cuba, Ote.	1	ND	U	III	

950 - 1090 kc/s

Cuba

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
950	CMBF	Habana	10	DA	U	I-D	5
960	CMGN	Jovellanos, M.	0.5	ND		III	
	CMJN	Camagüey, Cam.	2	ND	U	III	
970	CMHM	S. Clara, L.V.	1	ND	U	III	
	CMKD	Holguín, Ote.	1	ND	U	III	
980	CMCK	Habana	10	DA	U	I-D	19
990	CMAW	Pinar del Río, P.R.	0.25	ND	U	II	
	CMHT	Sancti Spiritus, L.V.	1 D 0.25 N	ND	U	II	
1000	CMJG	Camagüey, Cam.	1	ND	U	II	9
	CMKL	Santiago de Cuba, Ote.	0.25	ND	U	II	
1010	CMZ	Habana	25	DA	U	I-B	23
1020	CMHF	Camajuaní, L.V.	0.1	ND	D	II-E	21
1030	CMJR	Camagüey, Cam.	5	DA	U	II-E	1
	CMAC	S. Cristóbal, P.R.	0.25	ND	D	II	
1050	CMHB	Sancti Spiritus, L.V.	1	ND	U	II	
	CMKF	Holguín, Ote.	0.25	ND	U	II	
1060	CMCX	Habana	10	DA	U	II	11
	CMJA	Camagüey, Cam.	0.25	ND	U	II	9
1070	CMAB	Pinar del Río, P.R.	5 D 2 N	ND	U	II	6
1080	CMJM	Ciego de Avila, Cam.	0.5	ND	U	II	9
1090	CMBS	Habaña	0.25	ND	U	II	10
	CMHE	Encrucijada, L.V.	0.25	ND	D	II	
	CMKR	Santiago de Cuba, Ote.	0.25 or 5	ND DA	U	II	

1110 - 1280 kc/s

Cuba

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1110	CMKS	Guantánamo, O.	0.25 D 0.1 N	ND	U	II	9
1120	CMBY	Habana	0.25	ND	D	II-E	21
1130	CMHU	Cienfuegos, L.V.	0.25	ND	U	II	9
1140	CMKH	Guantánamo, O.	0.25	ND	U	II	9
1150	CMBQ	Habana	10	DA	U	III-E	20
1160	CMJK	Camagüey, Cam.	1	ND	L-KSL	II	21
1170	CMAR	Artemisa, P.R.	0.25	DA-N	U	II	
	CMKB	Santiago de Cuba, Ote.	1 D 0.25 N	ND	U	II	9
1190	CMK	Habana	0.25	ND	U	II	10
	CMJD	Ciego de Avila, Cam.	0.25	ND	U	II	10
1220	CMHK	Cruces, L.V.	1	ND	U	II	
	CMKO	Holguín, Ote.	0.25	ND	U	II	
1230	CMCO	Habana	0.25	ND	U	IV	
	CMJX	Morón, Cam.	0.25	ND	U	IV	
1240	CMAD	Artemisa, P.R.	0.25	ND	U	IV	
	CMGW	Matanzas, M.	0.5	ND	U	IV-E	
	CMKE	Victoria de las Tunas, Ote.	0.25	ND	U	IV	
1250	CMHP	Cabaiguán, L.V.	0.25	ND	U	IV	
	CMKA	Santiago de Cuba, Ote.	0.25	ND	U	IV	
1260	CMCI	Habana	5	ND	U	III	
1270	CMJC	Camagüey, Cam.	1	ND	U	III	
1280	CMHA	Sagua la Grande, L.V.	1	ND	U	III	6

1290 - 1430 kc/s

Cuba

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1290	CMCW	Habana	0.25	ND	U	IV	
	CMKC	Santiago de Cuba, Ote.	1	ND	U	III	
1300	CMAN	Pinar del Río, P.R.	1	ND	U	III	
	CMJQ	Camagüey, Cam.	1	ND	U	III	
1310	CMHO	S. Clara, L.V.	1	ND	U	III	
1320	CMDA	Santiago de Cuba, Ote.	1	ND	U	III	
1330	CMCB	Habana	1	ND	U	III	
1340	—	Pinar del Río, P.R.	0.25	ND	U	IV	
	CMGU	Matanzas, M.	0.25	ND	U	IV	
	CMJF	Camagüey, Cam.	1	ND	U	IV-E	
	CMKY	Puerto Padre, Ote.	0.25	ND	U	IV	
1350	CMHJ	Cienfuegos, L.V.	1	ND	U	III	
1360	CMBG	Habana	0.25	ND	S.H.	IV	
	CMOA	Habana	0.25	ND	S.H.	IV	
	CMDC	Santiago de Cuba, Ote.	1 D 0.5 N	ND	U	III	
1370	CMJH	Ciego de Avila, Cam.	0.5	ND	U	III	
1390	CMBX	Habana	0.5	ND	U	III	
	CMKX	Bayamo, Ote.	0.5	ND	U	III	
1400	CMGL	Matanzas, M.	0.25	ND	U	IV	
	CMJI	Florida, Cam.	0.25	ND	U	IV	
	CMKI	Guantánamo, Ote.	0.25	ND	U	IV	
1410	CMHX	S. Clara, L.V.	1	ND	U	III	6
1420	CMCQ	Habana	1	ND	U	III	
1430	CMKZ	Palma Soriano, Ote.	0.25	ND	U	IV	

1440 - 1590 kc/s

Cuba

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1440	—	Matanzas, M.	0.5	ND	U	III	
	CMJW	Camagüey, Cam.	0.25	ND	U	IV	
1450	—	S. Clara, L.V.	0.25	ND	U	IV	
1460	CMCM	Habana	0.5	ND	U	III	
	CMKQ	S. Luis, Ote.	0.5	ND	U	III	
1470	CMGE	Cárdenas, M.	0.25	ND	U	IV	
	CMJO	Ciego de Avila, Cam.	0.5	ND	U	III	
1480	—	S. Clara, L.V.	0.5	ND	U	III	6
1490	CMOX	Habana	0.25	ND	U	IV	
	CMKG	Victoria de las Tunas, Ote.	0.25	ND	U	IV	
1520	CMBD	Habana	0.25	ND	U	II	9
1550	CMKT	La Maya, Ote.	0.25	ND	U	II	
	—	Habana	0.25	ND	U	II	
1560	—	S. Clara, L.V.	10	DA	U	I-B	24
1580	—	Camagüey, Cam.	0.5	ND	U	II	
1590	—	Habana	0.5	ND	U	III	
	—	Holguín, Ote.	0.25	ND	U	IV	

Cuba

OBSERVATIONS
OBSERVACIONES
OBSERVATIONS

1 - The United States of America accepts the derogation of the priority on this channel with the power specified and on condition that the interfering 10% sky wave signal does not exceed 25 uV/m at any point within a circle of 800 miles radius around the Class I station. Any other assignment shall protect in accordance with Appendix B of Annex 2.

Los Estados Unidos de América aceptan la derogación de la prioridad en este canal con potencia especificada a condición de que la señal de onda reflejada interferente de 10% no exceda de 25 uV/m dentro de un círculo de 800 millas alrededor de la estación de Clase I. Cualquier otra asignación deberá dar protección de acuerdo con el Apendice B del Anexo 2.

Les Etats-Unis d'Amérique acceptent la dérogation de priorité dans cette voie avec la puissance indiquée et à la condition que le signal d'onde réfléchie(10% du temps) ne dépasse pas 25 uV/m en un point quelconque à l'interieur d'un cercle de 800 milles de rayon ayant la station de classe I pour centre. Toute autre assignation doit accorder une protection conforme aux dispositions de l'appendice B a l'annexe 2.

2 - Radiation toward S. Juan, P. R., shall not exceed 175 mV/m. Protection of other stations will be in accordance with Appendix B of Annex 2.

La radiación hacia S. Juan, P. R., no excederá de 175 mV/m. La protección a otras estaciones estara de acuerdo con el Apéndice B del Anexo 2.

Le rayonnement en direction de S. Juan, P. R., ne doit pas dépasser 175 mV/m. La protection des autres stations doit être conforme aux dispositions de l'appendice B a l'annexe 2.

3 - The 10% sky wave signal on the Canadian Border shall not exceed 39 uV/m and the directional antenna will protect the U.S.A. station in Pittsburg, Kan. in accordance with Appendix B of Annex 2.

La señal de onda reflejada de 10% en la frontera canadiense no excederá de 39 uV/m y la antena direccional protegerá la estación de los E.U.A. en Pittsburg, Kan., de acuerdo con el Apendice B del Anexo 2.

Le signal d'onde réfléchie(10% du temps) à la frontière canadienne ne doit pas dépasser 39 uV/m et l'antenne dirigée doit proteger la station américaine de Pittsburg, Kan., conformement aux dispositions de l'appendice B a l'annexe 2.

4 - Initial directional antenna to protect stations in the cities specified to the contour indicated:

La antena direccional inicial protegerá las estaciones de las ciudades que se señalan hasta el contorno indicado:

L'antenne dirigée initiale doit protéger les stations situées dans les villes énumérées ci-apres jusqu'au contour indiqué:

Providence, R. I.	1.0	mV/m
Fairmont, W. Va.	1.1	"
Atlanta, Ga.	2.4	"
Little Rock, Ark.	1.0	"
Hermosillo, Son.	1.0	"

5 - The radiated field toward any U.S.A. station on this frequency is not to exceed 125 mV/m.

El campo radiado hacia cualquier estación de los E.U.A. en esta frecuencia no debe exceder de 125 mV/m.

Le champ rayonné en direction de toute station des Etats Unis d'Amérique sur cette fréquence de doit pas dépasser 125 mV/m.

6 - The United States of America accepts a derogation of the 50% RSS rule, with the understanding that if power is increased and a directional antenna is installed, protection to other stations listed herein will be in accordance with the regular provisions of Appendix B of Annex 2, without regard to existing interference from the Cuban assignment.

Los Estados Unidos de América aceptan una derogación de la regla del 50% RSS en la inteligencia de que si se aumenta la potencia y se instala una antena direccional, la protección a otras estaciones aquí enumeradas se dará de acuerdo con las disposiciones regulares del Apéndice B del Anexo 2 sin tener en cuenta la interferencia existente en la asignación de Cuba.

Les Etats-Unis d'Amérique acceptent une dérogation de la règle de la moitié de la résultante quadratique, étant entendu que si la puissance est augmentée et qu'une antenne dirigée est installée, la protection accordée aux autres stations énumérées ici sera conforme aux dispositions régulières de l'appendice B à l'annexe 2, compte non tenu du brouillage existant causé par l'assignation cubaine.

7 - The 10 kW directional antenna pattern previously notified through the OIR and dated May 7, 1947, is accepted with the understanding that the radiated field in the direction of Asheville, N. C., will be reduced to 200 mV/m.

El patrón de antena direccional de 10 kW previamente notificado mediante la OIR con fecha 7 de mayo de 1947 queda aceptado entendiéndose que el campo radiado en la dirección de Asheville, N. C., será reducido a 200 mV/m.

Le diagramme de rayonnement de l'antenne dirigée de l'émeteur de 10 kW notifié précédemment par l'intermédiaire de l'OIR et portant la date du 7 mai 1947, est accepté à condition que le champ rayonné en direction de Asheville, N. C., soit réduit à 200 mV/m.

8 - The 10% sky wave signal on the Canadian Border shall not exceed 50 uV/m and the maximum limitation to the U.S.A. station at Houston, Tex,, shall be the 2.25 mV/m ground wave contour.

El 10% de la señal de onda reflejada en la frontera del Canadá no excederá de 50 uV/m y la limitación máxima a la estación de los E.U.A. en Houston, Tex., será el contorno de onda terrestre de 2.25 mV/m.

Le signal d'onde réfléchie (10% du temps) à la frontière canadienne ne doit pas dépasser 50 uV/m et la limitation maximum imposée à la station américaine de Houston, Tex., doit être le contour 2,25 mV/m de l'onde de surface.

9 - This assignment is acceptable without a directional antenna unless interference in the secondary service of the Class I station results. If interference should result or if the power should be increased, a directional antenna must be used to protect the Class I station in accordance with Appendix B of Annex 2.

Cuba

Esta asignación es aceptable sin antena direccional a no ser que se produzca interferencia en el servicio secundario de la estacion de Clase I. Si se produce interferencia o se aumenta la potencia debe utilizarse una antena direccional para proteger las estaciones de la Clase I de acuerdo con el Apéndice B del Anexo 2.

Cette assignation est acceptable sans antenne dirigée à moins qu'il n'en résulte du brouillage pour le service secondaire de la station de la classe I. S'il doit en résulter du brouillage ou si la puissance doit être augmentée, une antenne dirigée doit être utilisée pour protéger la station de la classe I conformément aux dispositions de l'appendice B a l'annexe 2.

10 - If a directional antenna is installed, it must protect the Class I station in accordance with Appendix B of Annex 2.

Si se instala una antena direccional debe proteger la estación de Clase I de acuerdo con lo previsto en el Apéndice B del Anexo 2.

Si une antenne dirigée est installée elle doit protéger la station de la classe I conformément aux dispositions de l'appendice B a l'annexe 2.

11 - Directional antenna will protect other stations listed herein in accordance with Appendix B of Annex 2.

La antena direccional debe proteger otras estaciones aquí indicadas de acuerdo con el Apéndice B del Anexo 2.

L'antenne dirigée doit protéger les autres stations énumérées ici conformément aux dispositions de l'appendice B a l'annexe 2.

12 - Initial directional antenna will protect other stations listed herein in accordance with Appendix B of Annex 2, except that the radiated field toward WQAM shall not exceed 85 mV/m.

La antena direccional inicial protegerá otras estaciones aquí indicadas, de acuerdo con el Apéndice B del Anexo 2, con excepción de que el campo radiado hacia WQAM no debe exceder de 85 mV/m.

L'antenne dirigée initiale doit protéger les autres stations énumérées ici conformément aux dispositions de l'appendice B a l'annexe 2, excepte que le champ rayonné en direction de WQAM ne doit pas dépasser 85 mV/m.

13 - Notwithstanding the provisions of this Agreement to the contrary, particularly Section F 8 (d), the radiation pattern initially submitted for this 10 kW station may be changed in the future, within that power limitation, with increased radiation to the East provided the changed operation is otherwise in accordance with this Agreement. Initial directional antenna will protect other stations in accordance with Appendix B of Annex 2 except that the radiated field to the North of Cuba need not be reduced below 278 mV/m.

A pesar de lo previsto en sentido contrario en este Convenio, particularmente en la Seccion F, 8 (d), el patron de radiacion inicialmente sometido para esta estacion de 10 kW puede ser modificado en el futuro, dentro de dicha limitacion de potencia, aumentando la radiacion hacia el Este, con tal que en los demas aspectos el cambio de operacion este de acuerdo con este Convenio. La antena direccional protegera otras estaciones de acuerdo con el Apendice B del Anexo 2 excepto que el campo radiado al Norte de Cuba no necesita reducirse mas de 278 mV/m.

Par dérogation aux dispositions du présent Accord pour autant qu'elles s'y opposent, en particulier celles de la section F 8 (d), le diagramme de rayonnement soumis en premier lieu pour cette station de 10 kW peut être modifié dans l'avenir, dans les limites de la puissance prescrite, avec une augmentation de rayonnement vers l'Est, pourvu que les conditions de fonctionnement ainsi modifiées soient, sous les autres rapports, en conformité avec le présent Accord. L'antenne dirigée initiale doit protéger les autres stations conformément aux dispositions de l'appendice B à l'annexe 2, excepté qu'il n'est pas nécessaire de diminuer le champ rayonné en direction du Nord de Cuba au-dessous de 278 mV/m.

14 - Initial directional antenna to protect stations in the cities specified to the contour indicated:

La antena direccional inicial protegerá estaciones en las ciudades especificadas hasta el contorno indicado:

L'antenne dirigée initiale doit protéger les stations situées dans les villes énumérées ci-après jusqu'au contour indiqué:

Uniontown, Pa.	1.6 mV/m
Austin, Tex.	3.0 "
Kalamazoo, Mich.	1.22 "
Omaha, Neb.	1.0 "
Boston, Mass.	1.0 "
Atlanta, Ga.	6.0 "
México, D. F.	1.83 "

15 - Initial directional antenna to protect stations in the cities specified to the contour indicated:

La antena direccional protegerá estaciones en las ciudades especificadas hasta el contorno indicado:

L'antenne dirigée initiale doit protéger les stations situées dans les villes énumérées ci-après jusqu'au contour indiqué:

Washington, D. C.	1.0 mV/m
S. Louis, Mo.	1.04 "
Providence, R. I.	1.0 "
Monterrey, N. L.	2.5 "

16 - The limitation from this station to the U.S.A. station in S. Juan, P. R., is not to exceed 3.8 mV/m.

La limitación de esta estación a la estación de los E.U.A. en S. Juan, P. R., no debe exceder de 3.8 mV/m.

Cette station ne limitera pas la station américaine de S. Juan, P. R., à l'intérieur du contour 3,8 mV/m de cette dernière.

17 - Initial directional antenna to protect stations in the cities specified to the contour indicated:

La antena direccional protegerá estaciones en las ciudades especificadas hasta el contorno indicado:

L'antenne dirigée initiale doit protéger les stations situées dans les villes énumérées ci-après jusqu'au contour indiqué:

Cuba

Memphis, Tenn.	1.6 mV/m
Norfolk, Va.	1.4 "
México, D. F.	1.0 "

18 - Initial directional antenna to protect stations in the cities specified to the contour indicated:

La antena direccional deberá proteger estaciones en las ciudades especificadas en el contorno indicado:

L'antenne dirigée initiale doit protéger les stations situées dans les villes énumérées ci-après jusqu'au contour indiqué:

Richmond, Va.	2.35 mV/m
Johnson City, Tenn.	3.48 "
Meridian, Miss.	5.60 "

19 - Initial directional antenna will protect other stations in accordance with Appendix B of Annex 2 except that radiation need not be reduced below 392 mV/m.

La antena direccional protegerá otras estaciones de acuerdo con el Apéndice B del Anexo 2, excepto que la radiación no necesita reducirse más de 392 mV/m.

L'antenne dirigée initiale doit protéger les autres stations conformément aux dispositions de l'appendice B à l'annexe 2, excepté qu'il n'est pas nécessaire de diminuer le rayonnement au-dessous de 392 mV/m.

20 - Initial directional antenna will protect other stations in accordance with Appendix B of Annex 2 except that the radiated field need not be reduced below 175 mV/m.

La antena direccional protegerá otras estaciones de acuerdo con el Apéndice B del Anexo 2 excepto que el campo radiado no necesita ser reducido por debajo de los 175 mV/m.

L'antenne dirigée initiale doit protéger les autres stations conformément aux dispositions de l'appendice B à l'annexe 2, excepté qu'il n'est pas nécessaire de diminuer le champ rayonné au-dessous de 175 mV/m.

21 - This assignment shall be subject to interference from any use of the Class I-A priority on this channel. The United States of America waives the right for day-time border protection specified in Appendix B of Annex 2, for this assignment, with the power listed.

Esta asignación quedará sujeta a interferencia producida por cualquier uso de la prioridad de Clase I-A en este canal. Los Estados Unidos de América renuncian al derecho de protección diurna, en la frontera, especificado en el Apéndice B del Anexo 2, para esta asignación, con la potencia indicada.

Cette assignation sera sujette au brouillage causé par tout usage de la priorité de classe I-A dans cette voie. Les Etats-Unis d'Amérique renoncent à leurs droits en ce qui concerne la protection de jour à la frontière, spécifiée à l'appendice B à l'annexe 2, pour cette assignation, avec la puissance indiquée.

22 - The 10% sky wave signal on the Canadian Border shall not exceed 39 uV/m.

La señal de onda reflejada de 10% en la frontera canadiense no debe exceder de 39 uV/m.

Le signal d'onde réfléchie (10% du temps) à la frontière canadienne ne doit pas dépasser 39 uV/m.

23 - With regard to the use of the clear channel 1010 kc/s by a Class I-A station in Canada, and by a Class I-B station in Cuba, both countries mutually agree that the interfering signal from the Cuban I-B station shall not exceed for 10% of the time the value of 50 uV/m at any point West of the Province of Manitoba in Canada.

En lo que se refiere al uso del canal despejado 1010 kc/s, en una estación de la Clase I-A en Canada y en una estacion de la Clase I-B en Cuba, ambos países están de acuerdo en que la señal interferente desde la estación I-B cubana no excederá en el 10% del tiempo, el valor de 50 uV/m, en ningún lugar situado al Oeste de la Provincia de Manitoba en Canadá.

En ce qui concerne l'usage de la voie libre 1010 kc/s par une station de la classe I-A au Canada, et par une station de la classe I-B à Cuba, les deux pays sont convenus que le signal brouilleur provenant de la station cubaine de la classe I-B ne doit pas dépasser pendant 10% du temps la valeur de 50 uV/m en un lieu quelconque du Canada situe à l'Ouest de la Province du Manitoba.

24 - The radiation toward Las Villas from the Class I-B station in New York City is not to exceed the equivalent of 10 kW from an omnidirectional antenna. Radiation from the Las Villas Class I-B station toward the service area of the Class I-B station in New York City is not to exceed the equivalent of 1 kW from an omnidirectional antenna.

La radiación hacia Las Villas desde la estación de Clase I-B en New York City, no excederá el equivalente de 10 kW de una antena omnidireccional. La radiación de la estación de Clase I-B de Las Villas hacia el área de servicio de la estación Clase I-B en New York City, no excederá al equivalente de 1 kW de una antena omnidireccional.

Le rayonnement en direction de Las Villas de la station de la classe I-B à New York City ne doit pas dépasser le rayonnement équivalent à 10 kW de puissance en fonctionnement sur antenne non dirigée. Le rayonnement de la station de la classe I-B située à Las Villas en direction de la zone de service de la station de la classe I-B située à New York City ne doit pas dépasser le rayonnement équivalent à 1 kW de puissance en fonctionnement sur antenne non dirigée.

DOMINICAN REPUBLIC
REPUBLICA DOMINICANA
REPUBLIQUE DOMINICAINE

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
610	HI8B	Santiago	1	ND	U	III	
620	HI3T	Ciudad Trujillo	10	ND	U	I-C	1
790	HIL	Ciudad Trujillo	0.5	ND	U	III	
820	HI9Z	Santiago	1 D 0.1 N	ND	U	II	
950	HIG	Ciudad Trujillo	0.25	ND	U	IV	
1050	HI5K	Barahona	0.25	ND	U	II	
1220	HIN	Ciudad Trujillo	0.75	ND	U	II	
1230	HI1L	Santiago	0.25	ND	U	IV	
1240	HI9U	Puerto Plata	0.25	ND	U	IV	
1250	HI4C	La Romana	1 D 0.1 N	ND	U	III-IV	
1310	HI3V	La Vega	0.5	ND	U	III	
1330	HI3J	S. Pedro de Macoris	0.5	ND	U	III	

1350 - 1490 kc/s

Rep. Dominicana

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1350	HIZ	Ciudad Trujillo	1	ND	U	III	
1360	HI5S	Santiago	1 D 0.1 N	ND	U	III-IV	
1380	HI4B	La Romana	0.5	ND	U	III	
1400	HIT HI3A	Ciudad Trujillo Santiago	0.2 0.25	ND ND	U U	IV IV	
1440	HI4F	S. Francisco de Macoris	1 D 0.1 N	ND	U	III-IV	
1450	HI2R	S. Cristóbal	0.2	ND	U	IV	
1490	HI2H	Ciudad Trujillo	0.2	ND	U	IV	

1- This station will continue to operate on 1040 kc/s, 10 kW, U pending the change of station WKAQ, San Juan, P.R., to 810 kc/s.

Esta estación continuará funcionando en 1040 kc/s, 10 kW, U pendiente del cambio de estación WKAQ, San Juan, P.R., a 810 kc/s.

Cette station continuera son exploitation sur 1040 kc/s, 10 kW, U en attendant que la station WKAQ, San Juan, P.R., passe sur la fréquence 810 kc/s.

JAMAICA

JAMAICA

JAMAIQUE

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
880	ZQI	Kingston	5	Antenna characteristics to be determined and designed to afford the protection required by this Agreement. Las características de la antena deben ser determinadas y proyectadas para suministrar la protección requerida por este Convenio. Les caractéristiques de l'antenne seront déterminées et calculées pour accorder la protection requise par le présent Accord.	U	II	
1180	New	Montego Bay	5		U	II	

UNITED STATES OF AMERICA

ESTADOS UNIDOS DE AMERICA

ETATS-UNIS D'AMERIQUE

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
550	KENI	Anchorage, Alsk.	5		ND	U	III	
	KOY	Phoenix, Ariz.	5	D	ND	U	III	
			1	N				
	KAFY	Bakersfield, Calif.	1		DA-1	U	III	
	KFMB	S. Diego, Calif.	1		DA-1	U	III	
	KFRM	Near Concordia, Kan.	5		DA	D	III	
	KSD	S. Louis, Mo.	5		DA-N	U	III	
	KOPR	Butte, Mont.	1		DA-N	U	III	
	WGR	Buffalo, N.Y.	5		DA-N	U	III	
	KFYR	Bismarck, N.D.	5		DA-N	U	III	
	WKRC	Cincinnati, Ohio	5	D	DA-1	U	III	
			1	N				
	KOAC	Corvallis, Ore.	5		DA-2	U	III	
	WPAB	Ponce, P.R.	5	D	ND	U	III	2, 92
			1	N				
	KCRS	Midland, Tex.	5	D	DA-2	U	III	
			1	N				
	KTSA	S. Antonio, Tex.	5		DA-N	U	III	
	WDEV	Waterbury, Vt.	1		DA-2	U	III	
	WSVA	Harrisonburg, Va.	1		DA-N	U	III	PO: 1 kW, D.
	WLIN	Merrill, Wis.	1		DA-N	U	III	3
560	WOOF	Dothan, Ala.	1		ND	D	III	
	KYUM	Yuma, Ariz.	1		DA-N	U	III	4
	KSFO	S. Francisco, Calif.	5	D	ND	U	III	
			1	N				
	KLZ	Denver, Colo.	5		DA-1	U	III	
	WQAM	Miami, Fla.	5	D	ND	U	III	
			1	N				
	WIND	Chicago, Ill.	5		DA-2	U	III	5
	WMIK	Middlesboro, Ky.	0.5		ND	D	III	
	WGAN	Portland, Me.	5		DA-1	U	III	
	WHYN	Holyoke, Mass.	1		DA-1	U	III	
	KWTO	Springfield, Mo.	5		DA-N	U	III	6
	KMON	Great Falls, Mont.	5		DA-N	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
560 (Cont.)	WGAI	Elizabeth City, N.C.	1 D 0.5 N	DA-2	U	III	
	WFIL	Philadelphia, Pa.	5	DA-2	U	III	
	WIS	Columbia, S.C.	5	DA-N	U	III	
	WHBQ	Memphis, Tenn.	5 D 1 N	DA-2	U	III	
	KFDM	Beaumont, Tex.	5	DA-N	U	III	
	KPQ	Wenatchee, Wash.	5	DA-N	U	III	7
	WJLS	Beckley, W.Va.	1 D 0.5 N	DA-N	U	III	
570	WGWD	Gadsden, Ala.	1	ND	D	III	
	KLAC	Los Angeles, Calif.	5 D 1 N	ND	U	III	
	WQQW	Washington, D.C.	1	ND	D	III	
	—	Waycross, Ga.	1	ND	D	III	
	WKYB	Paducah, Ky.	1 D 0.5 N	DA-2	U	III	8
	WVMI	Biloxi, Miss.	1	ND	D	III	
	WMCA	New York, N.Y.	5	DA-1	U	III	
	WSYR	Syracuse, N.Y.	5	DA-2	U	III	
	WWNC	Asheville, N.C.	5	DA-N	U	III	
	WKBN	Youngstown, Ohio	5	DA-N	U	III	
	WNAX	Yankton, S.D.	5	DA-N	U	III	
	WFAA	Dallas, Tex.	5	DA-2	S-WBAP	III	9, 10
	WBAP	Fort Worth, Tex.	5	DA-2	S-WFAA	III	9, 10
	KUTA	Salt Lake City, Utah	5	DA-1	U	III	
	KVI	Seattle, Wash.	5	ND	U	III	
	WMAM	Marinette, Wis.	0.25 D 0.1 N	ND	U	IV	
580	KCNA	Tucson, Ariz.	5 D 0.5 N	DA-N	U	III	11
	KMJ	Fresno, Calif.	5	ND	U	III	
	WDBO	Orlando, Fla.	5	DA-N	U	III	
	WGAC	Augusta, Ga.	5 D 1 N	DA-N	U	III	
	KFXD	Nampa, Ida.	1	DA-1	U	III	
	WILL	Urbana, Ill.	5	DA-D	D	III	
	KSAC	Manhattan, Kan.	5 D 0.5 N	ND	S-WIBW	III	
	WIBW	Topeka, Kan.	5	DA-N	S-KSAC	III	
	KALB	Alexandria, La.	5 D 1 N	DA-N	U	III	
	WTAG	Worcester, Mass.	5	DA-2	U	III	
	WHP	Harrisburg, Pa.	5	DA-N	U	III	12
	WIAC	Santurce, P.R.	5	ND	U	III	13
	WCHS	Charleston, W.Va.	5	DA-N	U	III	
	WKTY	La Crosse, Wis.	1	DA-1	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
590	KFXM	S. Bernardino, Calif.	1		DA-2	U	III	
	KCSJ	Pueblo, Colo.	1		DA-N	U	III	
	WDLP	Panama City, Fla.	1		DA-N	U	III	
	WAGA	Atlanta, Ga.	5		DA-N	U	III	
	KID	Idaho Falls, Ida.	5	D	DA-N	U	III	14
			1	N				
	WVLK	Versailles, Ky.	1		DA-1	U	III	
	WEEI	Boston, Mass.	5		DA-1	U	III	
	WKZO	Kalamazoo, Mich.	5		DA-N	U	III	15
	WOW	Omaha, Neb.	5		ND	U	III	
	WROW	Albany, N.Y.	5	D	DA-2	U	III	
			1	N				
	WGTM	Wilson, N.C.	5		DA-2	U	III	
	KUGN	Eugene, Ore.	1		DA-N	U	III	
	WARM	Scranton, Pa.	5		DA-2	U	III	16
	WMBS	Uniontown, Pa.	1		DA-N	U	III	
	KTBC	Austin, Tex.	5	D	DA-N	U	III	
			1	N				
	KSUB	Cedar City, Utah	1		DA-N	U	III	
	WLVA	Lynchburg, Va.	1		DA-2	U	III	
	KHQ	Spokane, Wash.	5		ND	U	III	
600	KVCV	Redding, Calif.	1		DA-1	U	III	
	KFSD	S. Diego, Calif.	5		DA-1	U	III	
	WICC	Bridgeport, Conn.	1	D	DA-1	U	III	
			0.5	N				
	WPDQ	Jacksonville, Fla.	5		DA-N	U	III	
	WMT	Cedar Rapids, Ia.	5		DA-N	U	III	
	WMRY	New Orleans, La.	0.5		ND	D	III	
	WCAO	Baltimore, Md.	5		DA-1	U	III	
	WTAC	Flint, Mich.	1	D	DA-1	U	III	
			0.5	N				
	WSJS	Winston-Salem, N.C.	5		DA-2	U	III	
	KSJB	Jamestown, N.D.	5		DA-1	U	III	
	WREC	Memphis, Tenn.	5		DA-2	U	III	
	KROD	El Paso, Tex.	5		DA-N	U	III	
	KERB	Kermit, Tex.	1		DA-D	D	III	
	KTBB	Tyler, Tex.	0.5	D	DA-N	U	III	PO: 0.5kW, D.
			1	N				
610	WSGN	Birmingham, Ala.	5	D	DA-N	U	III	
			1	N				
	KFAR	Fairbanks, Alsk.	5		ND	U	III	17
	KFRC	S. Francisco, Calif.	5		ND	U	III	
	WIOD	Miami, Fla.	5		DA-2	U	III	
	KDAL	Duluth, Minn.	5		DA-N	U	III	
	WDAF	Kansas City, Mo.	5		ND	U	III	
	KYES	Butte, Mont.	1		DA-N	U	III	
	KOJM	Havre, Mont.	1		DA-2	U	III	18
	WMUR	Manchester, N.H.	5	D	DA-2	U	III	
			1	N				
	KGGM	Albuquerque, N.M.	5		DA-N	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
610	WAYS.	Charlotte, N.C.	5	DA-2	U	III	19
(Cont.)	WHKC	Columbus, Ohio	5	DA-N	U	III	
	WIP	Philadelphia, Pa.	5	DA-1	U	III	
	KLEE	Houston, Tex.	5	DA-2	U	III	
	KVNU	Logan, Utah	1	DA-N	U	III	
	WSLS	Roanoke, Va.	1	DA-2	U	III	
	KWIE	Kenwick, Wash.	1	DA-N	U	III	20
620	KTAR	Phoenix, Ariz.	5	DA-N	U	III	
	KNGS	Hanford. Calif.	1	DA-N	U	III	
	WSUN	S. Petersburg, Fla.	5	DA-N	U	III	
	KWAL	Wallace, Ida.	1	DA-N	U	III	
	KCOM	Sioux City, Ia.	1	DA-2	U	III	
	WLBZ	Bangor, Me.	5	DA-N	U	III	
	WRBC	Jackson, Miss.	5 D 1 N	DA-N	U	III	
	WVNJ	Newark, N.J.	5	DA-2	U	III	
	WAGE	Syracuse, N.Y.	5 D 1 N	DA-N	U	III	
	WDNC	Durham, N.C.	5 D 1 N	DA-2	U	III	
	KGW	Portland, Ore.	5	DA-1	U	III	
	WHJB	Greensburg, Pa.	1 D 0.5 N	DA-2	U	III	
	WKAQ	S. Juan, P.R.	5	DA-1	U	III	21
	WROL	Knoxville, Tenn.	5	DA-2	U	III	
	KWFT	Wichita Falls, Tex.	5	DA-N	U	III	
	WCAX	Burlington, Vt.	5	DA-2	U	III	
	WWNR	Beckley, W.Va.	1 D 0.5 N	DA-N	U	III	22
	WTMJ	Milwaukee, Wis.	5	DA-N	U	III	
630	WAVU	Albertville, Ala.	0.5	ND	D	III	
	KVMA	Magnolia, Ark.	1	ND	D	III	
	KVOD	Denver, Colo.	5	DA-1	U	III	
	WMAL	Washington, D.C.	5	DA-1	U	III	
	WSAV	Savannah, Ga.	5	DA-N	U	III	
	KIDO	Boise, Ida.	5	DA-2	U	III	23
	WLAP	Lexington, Ky.	5 D 1 N	DA-1	U	III	24
	WJMS	Ironwood, Mich.	1	DA-N	U	III	
	KXOK	S. Louis, Mo.	5	DA-2	U	III	
	KOH	Reno, Nev.	5 D 1 N	DA-N	U	III	
	WIRC	Hickory, N.C.	1	ND	D	III	
	WMFD	Wilmington, N.C.	1	DA-2	U	III	
	KOOS	Coos Bay, Ore.	1	DA-1	U	III	20
	WQAN	Scranton, Pa.	0.5	ND	D	III	
	WPRO	Providence, R.I.	5	DA-N	U	III	
	KGFX	Pierre, S.D.	0.2	ND	S.H.(D)	IV	
	KMAC	S. Antonio, Tex.	5	DA-2	U	III	

640 - 690 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
640	KFI	Los Angeles, Calif.	50	ND	U	I-A	90
	WOI	Ames, Ia.	5	ND	S.H.(D)	II	
	WHKK	Akron, Ohio	1	DA-1	L-KFI	II	
	WNAD	Norman, Okla.	1	ND	D	II	
650	WSM	Nashville, Tenn.	50	ND	U	I-A	
	KRCT	Baytown, Tex.	0.25	ND	D	II	
660	KFAR	Fairbanks, Alsk.	10	ND	U	III	Vide: 610 kc/s.
	KOWH	Omaha, Neb.	0.5	ND	D	II	
	WNBC	New York, N.Y.	50	DA-1	U	I-A	
	WESC	Greenville, S.C.	5	ND	D	II	
	KSKY	Dallas, Tex.	1	ND	D	II	
670	WMAQ	Chicago, Ill.	50	ND	U	I-A	
680	KNBC	S. Francisco, Calif.	50	ND	U	I-B	
	WPIN	Clearwater, Fla.	1	ND	D	II	
	WCTT	Corbin, Ky.	1	DA-N	U	II	16
	WCBM	Baltimore, Md.	10 D 5 N	DA-2	U	II	16
	WLAW	Lawrence, Mass.	50	DA-1	U	II	
	WDBC	Escanaba, Mich.	1	DA-2	U	II	
	KFEQ	S. Joseph, Mo.	5	DA-2	U	II	
	WRNY	Rochester, N.Y.	0.25	ND	D	II	
	WPTF	Raleigh, N.C.	50	DA-N	U	II	
	WISR	Butler, Pa.	0.25	ND	D	II	
	WAPA	S. Juan, P.R.	10	ND	U	II	
	WMPS	Memphis, Tenn.	10 D 5 N	DA-N	U	II	
	KABC	S. Antonio, Tex.	50 D 10 N	DA-N	U	II	
	KOMW	Omak, Wash.	1	ND	D	II	
690	WVOK	Birmingham, Ala.	50	DA-D	D	II	25
	KGGF	Coffeyville, Kan.	10 D 5 N	DA-2	U	II	26
	WWEZ	New Orleans, La.	5	DA-2	U	II	
	KSTL	S. Louis, Mo.	1	ND	D	II	
	KRCO	Prineville, Ore.	1	ND	D	II	
	WLTR	Bloomsburg, Pa.	1	DA-D	D	II	
	KEPO	El Paso, Tex.	5	DA-2	U	II	
	KPET	Lamesa, Tex.	0.25	ND	D	II	
	KSVC	Richfield, Utah	1	ND	D	II	
	WCYB	Bristol, Va.	10	ND	D	II	
	WNNT	Warsaw, Va.	0.25	ND	D	II	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
700	WLW	Cincinnati, Ohio	50	ND	U	I-A	
710	WKRG	Mobile, Ala.	1 D 0.25 N	DA-N	U	II	
	KMPC	Los Angeles, Calif.	50	DA-N	U	II	27
	WGBS	Miami, Fla.	50 D 10 N	DA-2	U	II	28
	WROM	Rome, Ga.	1	ND	D	II	
	KTBS	Shreveport, La.	10 D 5 N	DA-2	U	II	
	WHB	Kansas City, Mo.	10 D 5 N	DA-2	U	II	
	WOR	New York, N.Y.	50	DA-1	U	I-B	
	WTOB	Winston-Salem, N.C.	1	ND	D	II	Vide: 1380 kc/s.
	WKJB	Mayaguez, P.R.	1 D 0.5 N	ND	U	II	
	WTPR	Paris, Tenn.	0.25	ND	D	II	
	KGNC	Amarillo, Tex.	10	DA-2	U	II	
	KURV	Edinburg, Tex.	0.25	ND	D	II	
	KIRO	Seattle, Wash.	50	DA-N	U	I-B	
	WDSM	Superior, Wis.	5	DA-N	U	II	20
	KFBC	Cheyenne, Wyo.	10 D 1 N	DA-2	U	II	4
720	WGN	Chicago, Ill.	50	ND	U	I-A	
730	WNDI	Montevallo, Ala.	0.25	ND	D	II	
	WKTG	Thomasville, Ga.	1	ND	D	II	
	KWGB	Goodland, Kan.	1	ND	D	II	
	WFMW	Madisonville, Ky.	0.25	ND	D	II	
	WMTC	Vancleve, Ky.	1	ND	D	II	
	KTRY	Bastrop, La.	0.25	ND	D	II	
	WIHL	Hammond, La.	0.25	ND	D	II	
	WACE	Chicopee, Mass.	1	ND	D	II	
	KWOA	Worthington, Minn.	1	ND	D	II	
	KWRE	Warrenton, Mo.	0.25	ND	D	II	
	KOJM	Havre, Mont.	1	ND	D	II	Vide: 610 kc/s.
	WIBS	Santurce, P.R.	10	DA-1	U	II	29
	WOHS	Shelby, N.C.	0.25	ND	D	II	
	WHWL	Nanticoke, Pa.	1	ND	D	II	
	WPIT	Pittsburgh, Pa.	1	ND	D	II	
	WPAL	Charleston, S.C.	1	ND	D	II	
	WLIL	Lenoir City, Tenn.	0.5	ND	D	II	
	WDIA	Memphis, Tenn.	0.25	ND	D	II	
	WKSR	Pulaski, Tenn.	0.25	ND	D	II	
	KOPP	Ogden, Utah	1	ND	D	II	
	WPIK	Alexandria, Va.	1	ND	D	II	
	KULE	Ephrata, Wash.	0.25	ND	D	II	
	WCFC	Beckley, W.Va.	0.25	ND	D	II	
	WLIN	Merrill, Wis.	1	ND	D	II	Vide: 550 kc/s.

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740	KCBS	S. Francisco, Calif.	50	DA-2	U	II	30
	WORZ	Orlando, Fla.	1	DA-2	U	II	
	WVLN	Olney, Ill.	0.25	ND	D	II	
	KBOE	Oskaloosa, Ia.	0.25	ND	D	II	
	WNOP	Newport, Ky.	1	DA-D	D	II	
	WTAO	Cambridge, Mass.	0.25	ND	D	II	
	KPBM	Carlsbad, N.M.	1	ND	D	II	
	WGSM	Huntington, N.Y.	1	DA-D	D	II	
	WMBL	Morehead, N.C.	1	ND	D	II	
	WPAQ	Mount Airy, N.C.	1	ND	D	II	
	KRMG	Tulsa, Okla.	50 D 25 N	DA-2	U	II	33
	WVCH	Chester, Pa.	0.25	ND	D	II	
	WIBS	Santurce, P.R.	10	DA-1	U	II	31, 32
	WIRJ	Humboldt, Tenn.	0.25	ND	D	II	
	WJIG	Tullahoma, Tenn.	0.25	ND	D	II	
	KACE	Dallas, Tex.	10 D 5 N	DA-2	U	II	
	KTRH	Houston, Tex.	50	DA-1	U	II	
750	WSB	Atlanta, Ga.	50	ND	U	I-A	
	KSTT	Davenport, Ia.	0.25	ND	D	II	Vide: 1170 kc/s.
	WBMD	Baltimore, Md.	1	ND	D	II	
	KMMJ	Grand Island, Neb.	1	ND	L-WSB	II	
	WHEB	Portsmouth, N.H.	1	ND	L-WSB	II	
	KSEO	Durant, Okla.	0.25	ND	D	II	
	KXL	Portland, Ore.	10	DA-1	L-WSB	II	
	WPDX	Clarksburg, W.Va.	1	ND	D	II	
760	WJR	Detroit, Mich.	50	ND	U	I-A	
	WCPS	Tarboro, N.C.	1	ND	D	II	
770	KUOM	Minneapolis, Minn.	5	ND	S-WCAL 2/3 D	II	
	WCAL	Northfield, Minn.	5	ND	S-KUOM 1/3 D	II	
	WEW	S. Louis, Mo.	1	ND	D	II	
	KOB	Albuquerque, N.M.	50 D 25 N	ND	U	II	34
	WJZ	New York, N.Y.	50	ND	U	I-A	
	KXA	Seattle, Wash.	1	ND	L-WJZ	II	
780	WBBM	Chicago, Ill.	50	ND	U	I-A	
	WJAG	Norfolk, Neb.	1	ND	L-WBBM	II	
	WCKB	Dunn, N.C.	1	ND	D	II	
	WBBO	Forest City, N.C.	1	ND	D	II	
	KSPI	Stillwater, Okla.	0.25	ND	D	II	
	WARL	Arlington, Va.	1	ND	D	II	

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790	KFQD	Anchorage, Alsk.	5	ND	U	III	
	KECA	Los Angeles, Calif.	5	DA-N	U	III	
	WLBE	Radio Lake, West of the City of Eustis, Fla.	1	DA-1	U	III	
	WQXI	Buckhead, Ga.	5	ND	D	III	
	KXXX	Colby, Kan.	5	ND	D	III	
	WGRC	Louisville, Ky.	5 D 1 N	DA-2	U	III	16
	WSGW	Saginaw, Mich.	1	DA-2	U	III	
	KGHL	Billings, Mont.	5	DA-N	U	III	
	WWNY	Watertown, N.Y.	1	DA-N	U	III	
	WTNC	Thomasville, N.C.	1	ND	D	III	
	KFGO	Fargo, N.D.	5	DA-N	U	III	
	WAEB	Allentown, Pa.	1 D 0.5 N	DA-1	U	III	
	WPIC	Sharon, Pa.	1	ND	D	III	
	WEAN	Providence, R.I.	5	DA-1	U	III	
	WETB	Johnson City, Tenn.	1	ND	D	III	
	WMC	Memphis, Tenn.	5	DA-N	U	III	
	KTHT	Houston, Tex.	5	DA-2	U	III	
	KVLU	Lubbock, Tex.	5 D 1 N	DA-N	U	III	
	WTAR	Norfolk, Va.	5	DA-N	U	III	
	KVOS	Bellingham, Wash.	1	DA-1	U	III	
	KNEW	Spokane, Wash.	5	DA-2	U	III	
	WMON	Montgomery, W.Va.	1 D 0.5 N	DA-N	U	III	11
	WEGG	Moorefield, W.Va.	1	ND	D	III	
	WEAU	Eau Claire, Wis.	5	DA-N	U	III	
800	WHOS	Decatur, Ala.	1	ND	D	II	
	WMGY	Montgomery, Ala.	1	ND	D	II	
	WLAD	Danbury, Conn.	0.25	ND	D	II	
	WMBM	Miami Beach, Fla.	1	ND	D	II	
	WWPF	Palatka, Fla.	0.25	ND	D	II	
	WJAT	Swainsboro, Ga.	1	ND	D	II	
	KXIC	Iowa City, Ia.	1	DA-D	D	II	
	WKYB	Paducah, Ky.	1	ND	D	II	Vide: 570 kc/s.
	WBOK	New Orleans, La.	1	DA-D	D	II	
	WCCM	Lawrence, Mass.	1	ND	D	II	
	WKDN	Camden, N.J.	1	ND	D	II	
	KTOW	Oklahoma City, Okla.	0.25	ND	D	II	
	KPDQ	Portland, Ore.	1	ND	D	II	
	WCHA	Chambersborg, Pa.	1	ND	D	II	
	WDSC	Dillon, S.C.	1	ND	D	II	
	WEAB	Greer, S.C.	0.25	ND	D	II	
	WIBK	Knoxville, Tenn.	1	ND	D	II	
	KDDD	Dumas, Tex.	0.25	ND	D	II	
	KBUH	Brigham City, Utah	0.25	ND	D	II	
	WSVS	Crewe, Va.	1	ND	D	II	
	WHTN	Huntington, W.Va.	1	ND	D	II	

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810	KGO	S. Francisco, Calif.	50	DA-1	U	I-B	
	WASL	Annapolis, Md.	0.25	ND	D	II	
	KCMO	Kansas City, Mo.	50 D 10 N	DA-N	U	II	
	WGY	Schenectady, N.Y.	50	ND	U	I-B	
	WKBC	N. Wilkesboro, N.C.	1	ND	D	II	
	WCEC	Rocky Mount, N.C.	1	ND	D	II	
	WEDO	McKeesport, Pa.	1	ND	D	II	
	WKAQ	S. Juan, P.R.	5	DA-1	U	II	95
	KTBI	Tacoma, Wash.	1	ND	D	II	
	WJPG	Green Bay, Wis.	1	ND	D	II	Vide: 1440 kc/s.
820	WAIT	Chicago, Ill.	5	ND	L-WFAA WBAP (S.H.)	II	
	WCBD	Chicago, Ill.	5	ND	L-WBAP WFAA (S.H.)	II	
	WIKY	Evansville, Ind.	0.25	ND	D	II	
	WOSU	Columbus, Ohio	5	ND	L-WFAA WBAP	II	
	WFAA	Dallas, Tex.	50	ND	S-WBAP	I-A	35
	WBAP	Fort Worth, Tex.	50	ND	S-WFAA	I-A	35
830	WCCO	Minneapolis, Minn.	50	ND	U	I-A	
	KBOA	Kennett, Mo.	1	ND	D	II	
	WNYC	New York, N.Y.	1	DA-1	L-WCCO	II	
840	WKAB	Mobile, Ala.	1	ND	D	II	
	WKNB	New Britain, Conn.	1	ND	D	II	
	WHAS	Louisville, Ky.	50	ND	U	I-A	
	WVPO	Stroudsburg, Pa.	0.25	ND	D	II	
850	WTNB	Birmingham, Ala.	5 D 1 N	DA-N	U	II	1
	KOA	Denver, Colo.	50	ND	U	I-B	
	WRUF	Gainesville, Fla.	5	DA-N	U	II	
	WHDH	Boston, Mass.	50	DA-2	U	II	
	WKBZ	Muskegon, Mich.	1	DA-1	U	II	
	KFUO	Clayton, Mo.	5	ND	L-KOA	II	
	WXKW	Albany, N.Y.	10	DA-1	U	II	
	WNAO	Raleigh, N.C.	5	DA-N	U	II	
	WJW	Cleveland, Ohio	5	DA-1	U	II	
	WEEU	Reading, Pa.	1	DA-N	U	II	
	WCAV	Norfolk, Va.	1	DA-2	U	II	
	WNEL	S. Juan, P.R.	5	DA-1	U	II	36
860	KIFN	Phoenix, Ariz.	0.25	ND	D	II	
	KOSE	Osceola, Ark.	1	ND	D	II	

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860 (Cont.)	KTRB	Modesto, Calif.	5 D 1 N	DA-N	U	II	7
	WERD	Atlanta, Ga.	1	ND	D	II	
	WDMG	Douglas, Ga.	1	ND	D	II	
	KWPC	Muscatine, Ia.	0.25	ND	D	II	
	KOAM	Pittsburg, Kan.	10 D 5 N	DA-N	U	II	
	WSON	Henderson, Ky.	0.5	ND	D	II	
	WNAW	North Adams, Mass.	0.25	ND	D	II	
	KNUJ	New Ulm, Minn.	1	ND	D	II	
	WHOD	Homestead, Pa.	0.25	ND	D	II	
	WTEL	Philadelphia, Pa.	0.25	ND	D	II	
	WNEL	S. Juan, P.R.	5	DA-1	U	II	37
	WLBG	Laurens, S.C.	0.25	ND	D	II	
	KCHC	El Paso, Tex.	1	ND	D	II	
	KFST	Fort Stockton, Tex.	0.25	ND	D	II	
	KPAN	Hereford, Tex.	0.25	ND	D	II	
	KSFA	Nacogdoches, Tex.	1	ND	D	II	
	KONO	S. Antonio, Tex.	5 D 1 N	DA-N	U	II	16
	WFHG	Bristol, Va.	1	ND	D	II	Vide: 980 kc/s.
	WOAY	Oak Hill, W.Va.	5	ND	D	II	PO: 1 kW, D.
	WFOX	Milwaukee, Wis.	0.25	ND	D	II	
870	KIEV	Glendale, Calif.	0.25	ND	D	II	
	WWL	New Orleans, La.	50	DA-1	U	I-A	
	WKAR	East Lansing, Mich.	5	ND	D	II	
	WHCU	Ithaca, N.Y.	1	ND	L-WWL	II	
	WGTL	Kennapolis, N.C.	1	ND	D	II	
	KCNC	Fort Worth, Tex.	0.25	ND	D	II	
	WFLO	Farmville, Va.	1	ND	D	II	
880	WCBS	New York, N.Y.	50	ND	U	I-A	
	WRRZ	Clinton, N.C.	1	ND	D	II	
	WRFD	Worthington, Ohio	5	ND	D	II	
890	WENR	Chicago, Ill.	50	ND	S-WLS	I-A	
	WLS	Chicago, Ill.	50	ND	S-WENR	I-A	
	WHNC	Henderson, N.C.	1	ND	D	II	
	WBYE	Oklahoma City, Okla.	1	ND	D	II	
900	WKAX	Birmingham, Ala.	1	ND	D	II	
	KLCN	Blytheville, Ark.	1	ND	D	II	
	KSGN	Near Centerville, Fresno County, Calif.	1	ND	D	II	
	WSWN	Belle Glade, Fla.	1	ND	D	II	
	WJIV	Savannah, Ga.	1	ND	D	II	
	WKYW	Louisville, Ky.	1	ND	D	II	
	WLSI	Pikeville, Ky.	1	ND	D	II	
	WATC	Gaylord, Mich.	1	ND	D	II	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
900	KTIS	Minneapolis, Minn.	1	ND	D	II	
(Cont.)	KFAL	Fulton, Mo.	0.25	ND	D	II	
	KJSK	Columbus, Neb.	1	ND	D	II	
	WOTW	Nashua, N.H.	1	ND	D	II	
	WAYN	Rockingham, N.C.	1	ND	D	II	
	WIAM	Williamston, N.C.	1	ND	D	II	
	WAND	Canton, Ohio	0.5	ND	D	II	
	WFRO	Fremont, Ohio	0.5	DA-D	D	II	
	WCPA	Clearfield, Pa.	1	ND	D	II	
	WCOR	Lebanon, Tenn.	0.25	ND	D	II	
	KALT	Atlanta, Tex.	1	ND	D	II	
	KMCO	Conroe, Tex.	0.5	DA-D	D	II	
	KPLW	Floydada, Tex.	0.25	ND	D	II	
	KCLW	Hamilton, Tex.	0.25	ND	D	II	
	KALE	Richland, Wash.	1	ND	D	II	
	WATK	Antigo, Wis.	0.25	ND	D	II	
910	KPHO	Phoenix, Ariz.	5	DA-N	U	III	
	KLX	Oakland, Calif.	5	DA-1	U	III	38
	KPOF	Denver, Colo.	5 D 1 N	ND	S.H.	III	
	WHAY	New Britain, Conn.	5	DA-2	U	III	
	WGAF	Valdosta, Ga.	5	DA-N	U	III	
	WSUI	Iowa City, Ia.	5	DA-1	U	III	
	WLCS	Baton Rouge, La.	1	DA-1	U	III	16
	WABI	Bangor, Me.	5	DA-N	U	III	
	WFDF	Flint, Mich.	1	DA-1	U	III	
	WCOC	Meridian, Miss.	5 D 1 N	ND	U	III	
	KAVR	Havre, Mont.	1	DA-N	U	III	4
	KCJB	Minot, N.D.	1	DA-N	U	III	
	WPFB	Middletown, Ohio	1 D 0.1 N	ND	U	III IV	
	KGLC	Miami, Okla.	1	DA-1	U	III	
	WAVL	Apollo, Pa.	1	ND	D	III	
	WGBI	Scranton, Pa.	1 D 0.5 N	ND	U	III	
	WSBA	York, Pa.	1	DA-2	U	III	
	WPRP	Ponce, P.R.	5	DA-1	U	III	
	WJHL	Johnson City, Tenn.	5 D 1 N	DA-N	U	III	
	KRIO	McAllen, Tex.	1	DA-1	U	III	
	KRRV	Sherman, Tex.	1	DA-1	U	III	
	KALL	Salt Lake City, Utah	1	DA-1	U	III	
	WRNL	Richmond, Va.	5	DA-N	U	III	
	KVAN	Vancouver, Wash.	1	DA-1	U	III	
920	WWWR	Russellville, Ala.	1	ND	D	III	
	KARK	Little Rock, Ark.	5	DA-N	U	III	
	KVEC	S. Luis Obispo, Calif.	1 D 0.5 N	ND	U	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
920 (Cont.)	KFXJ	Grand Junction, Colo.	1	D	ND	U	III	
			0.5	N				
	WGST	Atlanta, Ga.	5	D	ND	U	III	
			1	N				
	WMOK	Metropolis, Ill.	0.5		ND	D	III	
	WBAA	West Lafayette, Ind.	5	D	DA-N	U	III	
			1	N				
	KFNF	Shenandoah, Ia.	1	D	ND	S-KUSD	III	
			0.5	N				
	KDHL	Faribault, Minn.	1		DA-2	U	III	
	KWAD	Wadena, Minn.	1		DA-N	U	III	
	KRAM	Las Vegas, Nev.	1	D	DA-N	U	III	
			0.5	N				
	KOLO	Reno, Nev.	1		DA-1	U	III	
	WTTM	Trenton, N.J.	1		DA-1	U	III	
	WKRT	Cortland, N.Y.	1	D	DA-N	U	III	
			0.5	N				
	WBBB	Burlington, N.C.	1		ND	D	III	
	WKVA	Lewiston, Pa.	1		ND	D	III	
	WJAR	Providence, R.I.	5		DA-2	U	III	
	KUSD	Vermillion, S.D.	0.5		ND	S-KFNF	III	
	KELP	El Paso, Tex.	1		ND	D	III	
	KECK	Odessa, Tex.	1	D	DA-N	U	III	
			0.5	N				
	KTLW	Texas City, Tex.	1		ND	D	III	
	KXLY	Spokane, Wash.	5		ND	U	III	
	WMMN	Fairmont, W.Va.	5		DA-N	U	III	
	WOKY	Milwaukee, Wis.	1		DA-1	U	III	
930	WETO	Gadsden, Ala.	1		ND	D	III	
	KTKN	Ketchikan, Alsk.	1		ND	U	III	
	KHJ	Los Angeles, Calif.	5		DA-1	U	III	
	KIUP	Durango, Colo.	1		DA-N	U	III	16
	WJAX	Jacksonville, Fla.	5		DA-N	U	III	
	KSEI	Pocatello, Ida.	5		DA-N	U	III	
	WTAD	Quincy, Ill.	1		DA-N	U	III	
	WKCT	Bowling Green, Ky.	1	D	DA-N	U	III	PO: 1 kW, D.
			0.5	N				
	WFMD	Frederick, Md.	1		DA-N	U	III	40
	WREB	Holyoke, Mass.	0.5		ND	D	III	
	WBCK	Battle Creek, Mich.	1		DA-2	U	III	
	WSLI	Jackson, Miss.	5		DA-N	U	III	
	WWNH	Rochester, N.H.	1		ND	D	III	
	WPAT	Paterson, N.J.	5		DA-2	U	III	
	WBEN	Buffalo, N.Y.	5		DA-N	U	III	
	—	Charlotte, N.C.	5	D	DA-N	U	III	
			1	N				
	WRRF	Washington, N.C.	5	D	DA-N	U	III	PO: 5 kW, D.
			1	N				
	WEOL	Elyria, Ohio	1		DA-2	U	III	
	WKY	Oklahoma City, Okla.	5		DA-N	U	III	
	KGAL	Lebanon, Ore.	1		ND	D	III	
	WCNR	Bloomsburg, Pa.	0.5		ND	D	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
930	KSDN	Aberdeen, S.D.	1		DA-1	U	III	
(Cont.)	KDET	Center, Tex.	1		ND	D	III	
	KITE	S. Antonio, Tex.	1		ND	D	III	
	WSAZ	Huntington, W.Va.	5	D	DA-N	U	III	
			1	N				
	WLBL	Stevens Point, Wis.	5		ND	D	III	
940	KFRE	Fresno, Calif.	50		DA-2	U	II	
	WINZ	Hollywood, Fla.	1		DA-1	U	II	
	WMAZ	Macon, Ga.	10		DA-2	U	II	
	WMIX	Mount Vernon, Ill.	1		ND	D	II	
	KIOA	Des Moines, Ia.	10	D	DA-2	U	II	
			5	N				
	WTPS	New Orleans, La.	1	D	DA-N	U	II	
			0.5	N				
	WESA	Charleroi, Pa.	0.25		ND	D	II	
	WIPR	Santurce, P.R.	10		DA-1	U	II	
	KLYN	Amarillo, Tex.	1		DA-1	U	II	
950	KXJK	Forrest City, Ark.	1		ND	D	III	
	KFSA	Fort Smith, Ark.	1	D	DA-N	U	III	
			0.5	N				
	KFEL	Denver, Colo.	5		DA-1	U	III	
	WLOF	Orlando, Fla.	5		DA-N	U	III	
	WGTA	Summerville, Ga.	1		ND	D	III	
	WGOV	Valdosta, Ga.	5	D	DA-2	U	III	
			1	N				
	KDSH	Boise, Ida.	5		DA-N	U	III	
	WAAF	Chicago, Ill.	5		DA-2	U	III	PO; 1 kW, D.
	KOEL	Oelwein, Ia.	0.5		DA-D	D	III	
	WORL	Boston, Mass.	5		ND	D	III	
	WWJ	Detroit, Mich.	5		DA-N	U	III	
	KUMO	Columbia, Mo.	1		DA-1	U	III	
	WARC	Rochester, N.Y.	1		DA-2	U	III	
	WIBX	Utica, N.Y.	5		DA-1	U	III	
	WNCC	Barnesboro, Pa.	0.5		ND	D	III	
	WPEN	Philadelphia, Pa.	5		DA-N	U	III	
	WSPA	Spartanburg, S.C.	5		DA-N	U	III	
	KWAT	Watertown, S.D.	1		DA-N	U	III	
	KPRC	Houston, Tex.	5		DA-N	U	III	91
	KSEL	Lubbock, Tex.	1	D	DA-N	U	III	
			0.5	N				
	WXGI	Richmond, Va.	1		ND	D	III	
	KJR	Seattle, Wash.	5		DA-N	U	III	
	WKNA	Charleston, W.Va.	5	D	DA-2	U	III	
			1	N				
960	WBRC	Birmingham, Ala.	5		DA-N	U	III	
	KOOL	Phoenix, Ariz.	5		DA-N	U	III	
	KROW	Oakland, Calif.	5		DA-1	U	III	38
	KVRV	Victorville, Calif.	5		ND	D	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
960	WELI	New Haven, Conn.	1	DA-N	U	III	
(Cont.)	WRFC	Athens, Ga.	1	ND	D	III	
	WSBT	South Bend, Ind.	5	DA-2	U	III	
	KMA	Shenandoah, Ia.	5	DA-N	U	III	
	WPRT	Prestonsburg, Ky.	1	ND	D	III	
	KROF	Abbeville, La.	1	ND	D	III	
	WBOC	Salisbury, Md.	1	DA-N	U	III	
	WHAK	Rogers City, Mich.	1	ND	D	III	
	KLTF	Little Falls, Minn.	0.5	ND	D	III	
	WABG	Greenwood, Miss.	1	ND	D	III	
	KFVS	Cape Girardeau, Mo.	1 D 0.5 N	DA-N	U	III	
	WEAV	Plattsburg, N.Y.	1	DA-2	U	III	
	WWST	Wooster, Ohio	0.5	ND	D	III	
	KGWA	Enid, Okla.	1	DA-1	U	III	
	WCMB	Lemoyne, Pa.	1	ND	D	III	
	KIMP	Mount Pleasant, Tex.	1	ND	D	III	
	KGKL	S. Angelo, Tex.	5 D 1 N	DA-N	U	III	
	KOVO	Provo, Utah	1	DA-N	U	III	
	WDBJ	Roanoke, Va.	5	DA-N	U	III	
	WTCH	Shawano, Wis.	1	ND	D	III	
970	WERH	Hamilton, Ala.	1	ND	D	III	
	KNEA	Jonesboro, Ark.	1	ND	D	III	
	KBIS	Bakersfield, Calif.	1	DA-2	U	III	
	—	Modesto, Calif.	1	DA-2	U	III	
	WFLA	Tampa, Fla.	5	DA-N	U	III	
	WGLS	Decatur, Ga.	1	ND	D	III	
	WMAY	Springfield, Ill.	1 D 0.5 N	DA-2	U	III	
	WAVE	Louisville, Ky.	5	DA-1	U	III	
	KVOB	Alexandria, La.	1	DA-N	U	III	
	WCSH	Portland, Me.	5	DA-N	U	III	
	KLER	Rochester, Minn.	0.5 D 1 N	DA-2	U	III	
	KOOK	Billings, Mont.	5	DA-N	U	III	
	KNEB	Scottsbluff, Neb.	1	ND	D	III	
	WAAT	Newark, N.J.	5 D 1 N	DA-N	U	III	
	WEBR	Buffalo, N.Y.	5	DA-1	U	III	
	WRCS	Ahoskie, N.C.	1	ND	D	III	
	WDAY	Fargo, N.D.	5	DA-N	U	III	
	WICA	Ashtabula, Ohio	5 D 1 N	DA-2	U	III	
	KAKC	Tulsa, Okla.	1 D 0.5 N	DA-2	U	III	
	KOIN	Portland, Ore.	5	DA-N	U	III	
	WWSW	Pittsburgh, Pa.	5	DA-2	U	III	
	WJMX	Florence, S.C.	5 D 1 N	DA-N	U	III	
	KWBC	Fort Worth, Tex.	1	ND	D	III	
	KREM	Spokane, Wash.	1	DA-N	U	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
970	WWYO	Pineville, W.Va.	1		ND	D	III	
(Cont.)	WHA	Madison, Wis.	5		ND	D	III	
980	WKLF	Clanton, Ala.	1		ND	D	III	
	KFWB	Los Angeles, Calif.	5		ND	U	III	
	WRC	Washington, D.C.	5		DA-N	U	III	
	WKLY	Hartwell, Ga.	1		ND	D	III	
	WACL	Waycross, Ga.	1		ND	D	III	
	KCIJ	Shreveport, La.	5		ND	D	III	
	WCAP	Lowell, Mass.	1		ND	D	III	
	WPBC	Minneapolis, Minn.	0.5		ND	D	III	
	KMBC	Kansas City, Mo.	5		DA-N	U	III	
	KSGM	S. Genevieve, Mo.	0.5		DA-1	U	III	39
	KICA	Clovis, N.M.	1		DA-N	U	III	
	WTRY	Troy, N.Y.	5		DA-1	U	III	
	WAAA	Winston-Salem, N.C.	1		ND	D	III	
	WONE	Dayton, Ohio	5		DA-2	U	III	
	WILK	Wilkes-Barre, Pa.	5	D	DA-2	U	III	39
			1	N				
	WSIX	Nashville, Tenn.	5		DA-N	U	III	
	KFRD	Rosenberg, Tex.	1		ND	D	III	
	WFHG	Bristol, Va.	1		DA-N	U	III	PO: 860 kc/s, D.
	WWOC	Manitowoc, Wis.	0.5		ND	D	III	
990	WWWF	Fayette, Ala.	1		ND	D	II	
	KWEM	West Memphis, Ark.	1		ND	D	II	
	KECC	Pittsburg, Calif.	1		DA-N	U	II	
	KZYZ	Redlands, Calif.	1		ND	D	II	
	KTLN	Denver, Colo.	1		ND	D	II	
	WLCR	Torrington, Conn.	1		ND	D	II	
	WHOO	Orlando, Fla.	10	D	DA-N	U	II	
			5	N				
	WDWD	Dawson, Ga.	1		ND	D	II	
	WCAZ	Carthage, Ill.	1		ND	D	II	
	WITZ	Jasper, Ind.	1		ND	D	II	
	KAYL	Storm Lake, Ia.	0.25		ND	D	II	
	WJMR	New Orleans, La.	0.25		ND	D	II	Vide: 1450 kc/s.
	WBET	Brockton, Mass.	1		ND	D	II	
	KRMO	Monett, Mo.	0.25		ND	D	II	
	WSTS	Southern Pines, N.C.	1		ND	D	II	
	WJEH	Gallipolis, Ohio	0.25		ND	D	II	
	WIBG	Philadelphia, Pa.	10		DA-2	U	II	
	WVSC	Somerset, Pa.	0.25		ND	D	II	
	WPRA	Mayaguez, P.R.	10		DA-1	U	II	41
	WNOX	Knoxville, Tenn.	10		DA-N	U	II	
	KTRM	Beaumont, Tex.	1		DA-1	U	II	
	KFDX	Wichita Falls, Tex.	10	D	DA-2	U	II	6
			1	N				
	WANT	Richmond, Va.	1		ND	D	II	

1000 - 1040 kc/s

U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1000	WCFL	Chicago, Ill.	50	DA-2	U	I-B	
	KTOK	Oklahoma City, Okla.	5 D 1 N	DA-2	U	II	
	WSCR	Scranton, Pa.	1	ND	D	II	
	KSTA	Coleman, Tex.	0.25	ND	D	II	
	KGRI	Henderson, Tex.	0.25	ND	D	II	
	WHWB	Ruthland, Vt.	1	ND	D	II	
	KOMO	Seattle, Wash.	50	DA-N	U	I-B	
1010	WJMW	Athens, Ala.	0.25	ND	D	II	
	KLRA	Little Rock, Ark.	10 D 5 N	DA-N	U	II	
	KCHJ	Delano, Calif.	1	ND	D	II	
	KPOO	S. Francisco, Calif.	1	ND	D	II	
	WCNU	Crestview, Fla.	1	ND	D	II	
	WJVB	Jacksonville Beach, Fla.	0.25	ND	D	II	
	WEAS	Decatur, Ga.	10	ND	D	II	
	WCSI	Columbus, Ind.	0.25	ND	D	II	
	KSMN	Mason City, Ia.	1	ND	D	II	
	KIND	Independence, Kan.	0.25	ND	D	II	
	KDLA	De Ridder, La.	1	ND	D	II	
	WSID	Essex, Md.	1	ND	D	II	
	WAPF	McComb, Miss.	0.25	ND	D	II	
	KCHI	Chillicothe, Mo.	0.25	ND	D	II	
	KJCF	Festus, Mo.	0.25	ND	D	II	
	KRVN	Lexington, Neb.	25	DA-D	D	II	
	WINS	New York, N.Y.	50	DA-1	U	II	28
	WABZ	Albermale, N.C.	1	ND	D	II	
	WELS	Kinston, N.C.	1	ND	D	II	
	WHIN	Gallatin, Tenn.	1	ND	D	II	
	KAMQ	Amarillo, Tex.	1 D 0.5 N	DA-N	U	II	PO: 1 kW, D.
	—	Marlin, Tex.	0.25	ND	D	II	
	WMEV	Marion, Va.	1	ND	D	II	
	WTWT	Stevens Point, Wis.	0.25	ND	D	II	
1020	KFVD	Los Angeles, Calif.	5	ND	L-KDKA	II	
	WCIL	Carbondale, Ill.	1	ND	D	II	
	WPEO	Peoria, Ill.	1	ND	D	II	
	KDKA	Pittsburgh, Pa.	50	ND	U	I-A	
1030	WBZ	Boston, Mass.	50	DA-1	U	I-A	42
	WBZA	Boston, Mass.	1	ND	U	II	43
	KOB	Albuquerque, N.M.	50	DA-N	U	II	44
	KWBU	Corpus Christi, Tex.	50	ND	D	II	
1040	WHO	Des Moines, Ia.	50	ND	U	I-A	
	KIXL	Dallas, Tex.	1	ND	D	II	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1050	WRFS	Alexander City, Ala.	1		ND	D	II	
	WCRI	Scottsboro, Ala.	0.25		ND	D	II	
	KVLC	Little Rock, Ark.	1		ND	D	II	
	KVSM	S. Mateo, Calif.	0.25		ND	D	II	
	KWSO	Wasco, Calif.	0.25		ND	D	II	
	KLMO	Longmont, Colo.	0.25		ND	D	II	
	WIVY	Jacksonville, Fla.	1		ND	D	II	
	WMMB	Melbourne, Fla.	0.25		ND	D	II	
	WHBO	Sulphur Springs, Fla.	0.25		ND	D	II	
	WDZ	Decatur, Ill.	1		ND	D	II	
	KGAR	Garden City, Kan.	1		ND	D	II	
	WZIP	Covington, Ky.	0.25		ND	D	II	
	WKTM	Mayfield, Ky.	1		ND	D	II	
	WGAY	Silver Spring, Md.	1		ND	D	II	
	WPAG	Ann Arbor, Mich.	1		ND	D	II	
	KROX	Crookston, Minn.	1		ND	D	II	
	WACR	Columbus, Miss.	0.25		ND	D	II	
	WMGM	New York, N.Y.	50		DA-1	U	II	
	WWGP	Sanford, N.C.	1		ND	D	II	
	KFMJ	Tulsa, Okla.	1		ND	D	II	
	KVAS	Astoria, Ore.	0.25		ND	D	II	
	WRYO	Rochester, Pa.	0.25		ND	D	II	
	WLYC	Williamsport, Pa.	1		ND	D	II	
	KTFY	Brownfield, Tex.	0.25		ND	D	II	
	KELT	Electra, Tex.	0.25		ND	D	II	
	WVEC	Hampton, Va.	0.25		ND	D	II	Vide: 1490 kc/s.
	WRIC	Richlands, Va.	1		ND	D	II	
	KRKL	Kirkland, Wash.	0.25		ND	D	II	
	KREW	Sunnyside, Wash.	0.25		ND	D	II	Vide: 1230 kc/s.
	WRFW	Eau Claire, Wis.	1		ND	D	II	
	WLIP	Kenosha, Wis.	0.25		ND	D	II	
	WSTB	Sturgeon Bay, Wis.	0.25		ND	D	II	
1060	WIBV	Belleville, Ill.	0.25		ND	D	II	
	WNOE	New Orleans, La.	50	D	DA-2	U	II	
			5	N				
	WHFB	Benton Harbor, Mich.	1		ND	D	II	
	WMAP	Monroe, N.C.	0.25		ND	D	II	
	WCMW	Canton, Ohio	1		ND	D	II	
	KYW	Philadelphia, Pa.	50		DA-1	U	I-B	
1070	WAPI	Birmingham, Ala.	5		DA-N	U	II	
	KNX	Los Angeles, Calif.	50		ND	U	I-B	
	WVCG	Coral Gables, Fla.	1		ND	D	II	45
	WIBC	Indianapolis, Ind.	50	D	DA-2	U	II	
			10	N				
	KFBI	Wichita, Kan.	10	D	DA-N	U	II	
			1	N				
	KHMO	Hannibal, Mo.	5	D	DA-2	U	II	
			1	N				
	WHPE	High Point, N.C.	1		ND	D	II	
	WKVM	Arecibo, P.R.	25		DA-1	U	II	20

1070 - 1120 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1070 (Cont.)	KBKI	Alice, Tex.	1	DA-N	U	II	
	WKOW	Madison, Wis.	10 D 5 N	DA-2	U	II	
1080	KSCO	S. Cruz, Calif.	1 D 0.5 N	DA-N	U	II	
	WTIC	Hartford, Conn.	50	DA-N	U	I-B	96
	WVCG	Coral Gables, Fla.	1	ND	D	II	46
	WKLO	Louisville, Ky.	5 D 1 N	DA-2	U	II	
	WOAP	Owosso, Mich.	0.25	ND	D	II	
	WREX	Duluth, Minn.	10 D 5 N	DA-2	U	II	
	WXRA	Kenmore, N.Y.	1	ND	D	II	
	WEWO	Laurinburg, N.C.	1	ND	D	II	
	KWJJ	Portland, Ore.	10	DA-2	U	II	
	WPGH	Pittsburgh, Pa.	1	ND	D	II	
	KRLD	Dallas, Tex.	50	DA-N	U	I-B	
1090	KTHS	Hot Springs National Park, Ark.	50	DA-N	U	I-B	47
	WCRA	Effingham, Ill.	0.25	ND	D	II	
	KBOK	Waterloo, Ia.	1	ND	D	II	Vide: 1280 kc/s.
	WBAL	Baltimore, Md.	50	DA-N	U	I-B	
	WBMS	Boston, Mass.	1	ND	D	II	
	WMUS	Muskegon, Mich.	1	ND	D	II	
	WSJB	Charlotte Amalie, S. Thomas, V.I.	0.25	ND	U	II	
	KING	Seattle, Wash.	50	DA-1	U	II	
1100	KJBS	S. Francisco, Calif.	1	ND	L-WTAM	II	
	WLBB	Carrollton, Ga.	0.25	ND	D	II	
	WHLI	Hempstead, N.Y.	0.25	ND	D	II	
	WTAM	Cleveland, Ohio	50	ND	U	I-A	
	WGPA	Bethlehem, Pa.	0.25	ND	D	II	
1110	KXLA	Pasadena, Calif.	10	DA-2	U	II	48
	WALT	Tampa, Fla.	1	ND	D	II	
	WMBI	Chicago, Ill.	5	ND	L-WBT KFAB	II	
	KFAB	Omaha, Neb.	50	DA-N	U	I-B	
	WBT	Charlotte, N.C.	50	DA-N	U	I-B	
	WNAR	Norristown, Pa.	0.5	ND	D	II	
	WVJP	Caguas, P.R.	0.25	ND	U	II	
	WHIM	Providence, R.I.	1	ND	D	II	
1120	WBCC	Bethesda, Md.	0.25	ND	D	II	
	KMOX	S. Louis, Mo.	50	ND	U	I-A	
	WWOL	Buffalo, N.Y.	1	ND	D	II	

1120 - 1150 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1120 (Cont.)	KCLE	Cleburne, Tex.	0.25		ND	D	II	
1130	KSDO	S. Diego, Calif.	5	D	DA-2	U	II	
			1	N				
	KWKH	Shreveport, La.	50		DA-N	U	I-B	97
	WCAR	Detroit, Mich.	50	D	DA-2	U	II	49
			10	N				
	WDGY	Minneapolis, Minn.	50	D	DA-2	U	II	
			25	N				
	WNEW	New York, N.Y.	50		DA-N	U	I-B	48
1140	KGDM	Stockton, Calif.	5		DA-N	U	II	
	WMIE	Miami, Fla.	10	D	DA-2	U	II	
			5	N				
	KGEM	Boise, Ida.	10		DA-1	U	II	11
	WSIV	Pekin, Ill.	1		ND	D	II	
	KLPR	Oklahoma City, Okla.	1		ND	D	II	
	WRIO	Rio Pietras, P.R.	1	D	ND	U	II	Vide: 1320 kc/s.
			0.5	N				
	KSOO	Sioux Falls, S.D.	5		DA-N	U	II	50, 94
	KORC	Mineral Wells, Tex.	0.25		ND	D	II	
	WRVA	Richmond, Va.	50		DA-1	U	I-B	
1150	WJRD	Tuscaloosa, Ala.	5	D	DA-N	U	III	
			1	N				
	KCKY	Coolidge, Ariz.	1		DA-N	U	III	
	KXOC	Chico, Calif.	5		DA-N	U	III	
	KFSG	Los Angeles, Calif.	2.5	D	ND	S-KRKD	III	
			1	N				
	KRKD	Los Angeles, Calif.	5	D	ND	S-KFSG	III	
			1	N				
	WCNX	Middletown, Conn.	0.5		ND	D	III	
	WDEL	Wilmington, Del.	5		DA-2	U	III	
	WNDB	Daytona Beach, Fla.	1		ND	D	III	
	WGGH	Marion, Ill.	0.5		ND	D	III	
	KWDM	Des Moines, Ia.	1		DA-2	U	III	
	KSAL	Salina, Kan.	5		DA-N	U	III	
	WTCO	Campbellsville, Ky.	1		ND	D	III	
	WJBO	Baton Rouge, La.	5		DA-1	U	III	
	WCOP	Boston, Mass.	5		DA-2	U	III	
	WCEN	Mount Pleasant, Mich.	1		ND	D	III	PO: 0.5 kW, D.
	KASM	Albany, Minn.	0.5		ND	D	III	
	WRUN	Utica, N.Y.	5	D	DA-2	U	III	
			1	N				
	WFNS	Burlington, N.C.	1		ND	D	III	
	WCUE	Akron, Ohio	1		DA-D	D	III	
	WIMA	Lima, Ohio	1		DA-N	U	III	
	KFJI	Klamath Falls, Ore.	5	D	DA-N	U	III	
			1	N				
	WKPA	New Kensington, Pa.	0.25		ND	D	IV	

1150 - 1210 kc/s

U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1150 (Cont.)	WORA	Mayaguez, P.R.	5	DA-1	U	III	38
	WTYC	Rock Hill, S.C.	1	ND	D	III	
	WSNW	Seneca, S.C.	1	ND	D	III	
	WAPO	Chattanooga, Tenn.	5 D 1 N	DA-N	U	III	
	WTAW	College Station, Tex.	1	ND	D	III	
	KJBC	Midland, Tex.	1	ND	D	III	
	KOLJ	Quanah, Tex.	0.5	ND	D	III	
	KBKH	Pullman, Wash.	1	ND	D	III	
	KRSC	Seattle, Wash.	1	ND	U	III	
	WELC	Welch, W.Va.	1	ND	D	III	
	WISN	Milwaukee, Wis.	5	DA-1	U	III	
1160	WJJD	Chicago, Ill.	50	DA-1	L-KSL	II	
	KSL	Salt Lake City, Utah	50	ND	U	I-A	
1170	WJJJ	Montgomery, Ala.	10 D 1 N	DA-2	U	II	
	KCBQ	S. Diego, Calif.	5 D 1 N	DA-1	U	II	
	KLOK	S. Jose, Calif.	5	ND	D	II	
	WLBH	Mattoon, Ill.	0.25	ND	D	II	
	KSTT	Davenport, Ia.	1	DA-2	U	II	51
	KVOO	Tulsa, Okla.	50	DA-N	U	I-B	
	KPUG	Bellingham, Wash.	1	DA-1	U	II	
	WWVA	Wheeling, W.Va.	50	DA-N	U	I-B	
1180	WLDS	Jacksonville, Ill.	1	ND	D	II	
	WHAM	Rochester, N.Y.	50	ND	U	I-A	
1190	KGYW	Vallejo, Calif.	0.25	ND	D	II	
	WOWO	Fort Wayne, Ind.	50	DA-N	U	I-B	52
	KWHK	Hutchinson, Kan.	1	ND	D	II	
	WANN	Annapolis, Md.	1	ND	D	II	
	WKOX	Framingham, Mass.	1	ND	D	II	
	WLIB	New York, N.Y.	1	ND	L-WOWO	II	
	KEX	Portland, Ore.	50	DA-1	U	I-B	
	KLIF	Oak Cliff, Tex.	1	DA-N	U	II	
1200	WOAI	S. Antonio, Tex.	50	ND	U	I-A	
1210	WCNT	Centralia, Ill.	1	ND	D	II	
	WKNX	Saginaw, Mich.	1	ND	D	II	
	WADE	Wadesboro, N.C.	1	ND	D	II	
	WWSO	Springfield, Ohio	0.25	ND	D	II	
	WCAU	Philadelphia, Pa.	50	ND	U	I-A	

1220 - 1230 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1220	WEDR	Birmingham, Ala.	1	ND	D	II	
	KIBE	Palo Alto, Calif.	0.25	ND	D	II	
	WFEC	Miami, Fla.	0.25	ND	D	II	
	WSFT	Thomaston, Ga.	0.25	ND	D	II	
	WLPO	La Salle, Ill.	0.25	ND	D	II	
	WKRS	Waukegan, Ill.	1	DA-D	D	II	
	WKAM	Warsaw, Ind.	0.25	ND	D	II	
	KJAN	Atlantic, Ia.	0.25	ND	D	II	
	KOFO	Ottawa, Kan.	0.25	ND	D	II	
	WIBR	Baton Rouge, La.	0.25	ND	D	II	Vide: 1300 kc/s.
	WSHB	Stillwater, Minn.	0.25	ND	D	II	
	WGNY	Newburg, N.Y.	1	ND	D	II	
	WOPT	Scriba, N.Y.	1	ND	D	II	
	WREV	Reidsville, N.C.	0.25	ND	D	II	
	WGAR	Cleveland, Ohio	50	DA-1	U	II	
	KGYN	Guymon, Okla.	1	ND	D	II	
	WRIB	Providence, R.I.	1	ND	D	II	
	KDSX	Denison, Tex.	1	ND	D	II	
	WFAX	Falls Church, Va.	0.25	ND	D	II	
	KXRN	Renton, Wash.	0.25	ND	D	II	
1230	WAUD	Auburn, Ala.	0.25	ND	U	IV	
	WIRB	Enterprise, Ala.	0.25	ND	U	IV	
	WJBB	Haleyville, Ala.	0.25	ND	U	IV	
	WBHP	Huntsville, Ala.	0.25	ND	U	IV	
	WHTB	Talladega, Ala.	0.25	ND	U	IV	
	WTBC	Tuscaloosa, Ala.	0.25	ND	U	IV	
	KIFW	Sitka, Alsk.	0.25	ND	U	IV	
	KSUN	Bisbee, Ariz.	0.25	ND	U	IV	
	KGAN	Kingham, Ariz.	0.25	ND	U	IV	
	KRIZ	Phoenix, Ariz.	0.25	ND	U	IV	
	KCON	Conway, Ark.	0.25	ND	U	IV	
	KFPW	Fort Smith, Ark.	0.25	ND	U	IV	
	KBTM	Jonesboro, Ark.	0.25	ND	U	IV	
	KERO	Bakersfield, Calif.	0.25	ND	U	IV	
	KWTC	Barstow, Calif.	0.25	ND	U	IV	
	KXO	El Centro, Calif.	0.25	ND	U	IV	
	KDAC	Fort Bragg, Calif.	0.25	ND	U	IV	
	KGFJ	Los Angeles, Calif.	0.25	ND	U	IV	53
	KPRL	Paso Robles, Calif.	0.25	ND	U	IV	
	KWG	Stockton, Calif.	0.25	ND	U	IV	
	KRAI	Craig, Colo.	0.25	ND	U	IV	
	KEXO	Grand Junction, Colo.	0.25	ND	U	IV	
	KLVC	Leadville, Colo.	0.25	ND	U	IV	
	KDZA	Pueblo, Colo.	0.25	ND	U	IV	
	KGEK	Sterling, Colo.	0.25	ND	U	IV	PO: 0.1 kW, D.
	WTHT	Hartford, Conn.	0.25	ND	U	IV	
	WGGG	Gainesville, Fla.	0.25	ND	U	IV	
	WONN	Lakeland, Fla.	0.25	ND	U	IV	
	WNSA	New Smyrna Beach, Fla.	0.25	ND	U	IV	
	WEAR	Pensacola, Fla.	0.25	ND	U	IV	
	WCNH	Quincy, Fla.	0.25	ND	U	IV	
	WJNO	West Palm Beach, Fla.	0.25	ND	U	IV	

1150 - 1210 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1150 (Cont.)	WORA	Mayaguez, P.R.	5	DA-1	U	III	38
	WTYC	Rock Hill, S.C.	1	ND	D	III	
	WSNW	Seneca, S.C.	1	ND	D	III	
	WAPO	Chattanooga, Tenn.	5 D 1 N	DA-N	U	III	
	WTAW	College Station, Tex.	1	ND	D	III	
	KJBC	Midland, Tex.	1	ND	D	III	
	KOLJ	Quanah, Tex.	0.5	ND	D	III	
	KBKH	Pullman, Wash.	1	ND	D	III	
	KRSC	Seattle, Wash.	1	ND	U	III	
	WELC	Welch, W.Va.	1	ND	D	III	
	WISN	Milwaukee, Wis.	5	DA-1	U	III	
1160	WJJD	Chicago, Ill.	50	DA-1	L-KSL	II	
	KSL	Salt Lake City, Utah	50	ND	U	I-A	
1170	WJJJ	Montgomery, Ala.	10 D 1 N	DA-2	U	II	
	KCBQ	S. Diego, Calif.	5 D 1 N	DA-1	U	II	
	KLOK	S. Jose, Calif.	5	ND	D	II	
	WLBH	Mattoon, Ill.	0.25	ND	D	II	
	KSTT	Davenport, Ia.	1	DA-2	U	II	51
	KVOO	Tulsa, Okla.	50	DA-N	U	I-B	
	KPUG	Bellingham, Wash.	1	DA-1	U	II	
	WWVA	Wheeling, W.Va.	50	DA-N	U	I-B	
1180	WLDS	Jacksonville, Ill.	1	ND	D	II	
	WHAM	Rochester, N.Y.	50	ND	U	I-A	
1190	KGYW	Vallejo, Calif.	0.25	ND	D	II	
	WOWO	Fort Wayne, Ind.	50	DA-N	U	I-B	52
	KWHK	Hutchinson, Kan.	1	ND	D	II	
	WANN	Annapolis, Md.	1	ND	D	II	
	WKOX	Framingham, Mass.	1	ND	D	II	
	WLIB	New York, N.Y.	1	ND	L-WOWO	II	
	KEX	Portland, Ore.	50	DA-1	U	I-B	
	KLIF	Oak Cliff, Tex.	1	DA-N	U	II	
1200	WOAI	S. Antonio, Tex.	50	ND	U	I-A	
1210	WCNT	Centralia, Ill.	1	ND	D	II	
	WKNX	Saginaw, Mich.	1	ND	D	II	
	WADE	Wadesboro, N.C.	1	ND	D	II	
	WWSO	Springfield, Ohio	0.25	ND	D	II	
	WCAU	Philadelphia, Pa.	50	ND	U	I-A	

1220 - 1230 kc/s U.S.A.

FREQUENCY / FRECUENCIA / FREQUENCE kc/s	CALL LETTERS / LETRAS DE LLAMADA / INDICATIF D'APPEL	STATION / ESTACIÓN / STATION	POWER / POTENCIA / PUISSANCE kw	ANTENNA / ANTENA / ANTENNE	SCHEDULE / HORARIO / HORAIRE	CLASS / CLASE / CLASSE	OBSERVATIONS / OBSERVACIONES / OBSERVATIONS
1220	WEDR	Birmingham, Ala.	1	ND	D	II	
	KIBE	Palo Alto, Calif.	0.25	ND	D	II	
	WFEC	Miami, Fla.	0.25	ND	D	II	
	WSFT	Thomaston, Ga.	0.25	ND	D	II	
	WLPO	La Salle, Ill.	0.25	ND	D	II	
	WKRS	Waukegan, Ill.	1	DA-D	D	II	
	WKAM	Warsaw, Ind.	0.25	ND	D	II	
	KJAN	Atlantic, Ia.	0.25	ND	D	II	
	KOFO	Ottawa, Kan.	0.25	ND	D	II	
	WIBR	Baton Rouge, La.	0.25	ND	D	II	Vide: 1300 kc/s.
	WSHB	Stillwater, Minn.	0.25	ND	D	II	
	WGNY	Newburg, N.Y.	1	ND	D	II	
	WOPT	Scriba, N.Y.	1	ND	D	II	
	WREV	Reidsville, N.C.	0.25	ND	D	II	
	WGAR	Cleveland, Ohio	50	DA-1	U	II	
	KGYN	Guymon, Okla.	1	ND	D	II	
	WRIB	Providence, R.I.	1	ND	D	II	
	KDSX	Denison, Tex.	1	ND	D	II	
	WFAX	Falls Church, Va.	0.25	ND	D	II	
	KXRN	Renton, Wash.	0.25	ND	D	II	
1230	WAUD	Auburn, Ala.	0.25	ND	U	IV	
	WIRB	Enterprise, Ala.	0.25	ND	U	IV	
	WJBB	Haleyville, Ala.	0.25	ND	U	IV	
	WBHP	Huntsville, Ala.	0.25	ND	U	IV	
	WHTB	Talladega, Ala.	0.25	ND	U	IV	
	WTBC	Tuscaloosa, Ala.	0.25	ND	U	IV	
	KIFW	Sitka, Alsk.	0.25	ND	U	IV	
	KSUN	Bisbee, Ariz.	0.25	ND	U	IV	
	KGAN	Kingham, Ariz.	0.25	ND	U	IV	
	KRIZ	Phoenix, Ariz.	0.25	ND	U	IV	
	KCON	Conway, Ark.	0.25	ND	U	IV	
	KFFW	Fort Smith, Ark.	0.25	ND	U	IV	
	KBTM	Jonesboro, Ark.	0.25	ND	U	IV	
	KERO	Bakersfield, Calif.	0.25	ND	U	IV	
	KWTC	Barstow, Calif.	0.25	ND	U	IV	
	KXO	El Centro, Calif.	0.25	ND	U	IV	
	KDAC	Fort Bragg, Calif.	0.25	ND	U	IV	
	KGFJ	Los Angeles, Calif.	0.25	ND	U	IV	53
	KPRL	Paso Robles, Calif.	0.25	ND	U	IV	
	KWG	Stockton, Calif.	0.25	ND	U	IV	
	KRAI	Craig, Colo.	0.25	ND	U	IV	
	KEXO	Grand Junction, Colo.	0.25	ND	U	IV	
	KLVC	Leadville, Colo.	0.25	ND	U	IV	
	KDZA	Pueblo, Colo.	0.25	ND	U	IV	
	KGEK	Sterling, Colo.	0.25	ND	U	IV	PO: 0.1 kW, D.
	WTHT	Hartford, Conn.	0.25	ND	U	IV	
	WGGG	Gainesville, Fla.	0.25	ND	U	IV	
	WONN	Lakeland, Fla.	0.25	ND	U	IV	
	WNSA	New Smyrna Beach, Fla.	0.25	ND	U	IV	
	WEAR	Pensacola, Fla.	0.25	ND	U	IV	
	WCNH	Quincy, Fla.	0.25	ND	U	IV	
	WJNO	West Palm Beach, Fla.	0.25	ND	U	IV	

1230 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1230 (Cont.)	WDEC	Americus, Ga.	0.25	ND	U	IV	
	WJBF	Augusta, Ga.	0.25	ND	U	IV	
	WBLJ	Dalton, Ga.	0.25	ND	U	IV	
	WFOM	Marietta, Ga.	0.25	ND	U	IV	
	WFRP	Savannah, Ga.	0.25	ND	U	IV	
	WAYX	Waycross, Ga.	0.25	ND	U	IV	
	KBIO	Burley, Ida.	0.25	ND	U	IV	
	KRXG	Rexburg, Ida.	0.25	ND	U	IV	
	WJBC	Bloomington, Ill.	0.25	ND	U	IV	
	WQUA	Moline, Ill.	0.25	ND	U	IV	
	WJOB	Hammond, Ind.	0.25	ND	U	IV	
	WSAL	Logansport, Ind.	0.25	ND	U	IV	
	WTCJ	Tell City, Ind.	0.25	ND	U	IV	
	WBOW	Terre Haute, Ind.	0.25	ND	U	IV	
	KFJB	Marshalltown, Ia.	0.25	ND	U	IV	
	WHIR	Danville, Ky.	0.25	ND	U	IV	
	WHLN	Harlan, Ky.	0.25	ND	U	IV	
	WHOP	Hopkinsville, Ky.	0.25	ND	U	IV	
	KLIC	Monroe, La.	0.25	ND	U	IV	
	WJBW	New Orleans, La.	0.25	ND	U	IV	
	KSLO	Opelousas, La.	0.25	ND	U	IV	
	WGUY	Bangor, Me.	0.25	ND	U	IV	54
	WITH	Baltimore, Md.	0.25	ND	U	IV	
	WDYK	Cumberland, Md.	0.25	ND	U	IV	
	WESX	Salem, Mass.	0.25	ND	U	IV	
	WBSM	New Bedford, Mass.	0.25	ND	U	IV	
	WMNB	North Adams, Mass.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WNEB	Worcester, Mass.	0.25	ND	U	IV	
	WJEF	Grand Rapids, Mich.	0.25	ND	U	IV	
	WIKB	Iron River, Mich.	0.25	ND	U	IV	
	WMPC	Lapeer, Mich.	0.25	ND	S.H.	IV	
	WSOO	Sault S. Marie, Mich.	0.25	ND	U	IV	55, 98
	WKLK	Cloquet, Minn.	0.25	ND	U	IV	
	KGDE	Fergus Falls, Minn.	0.25	ND	U	IV	
	KYSM	Mankato, Minn.	0.25	ND	U	IV	
	KTRF	Thief River Falls, Minn.	0.25	ND	U	IV	
	KWNO	Winona, Minn.	0.25	ND	U	IV	
	WCMA	Corinth, Miss.	0.25	ND	U	IV	
	WHSY	Hattiesburg, Miss.	0.25	ND	U	IV	
	WSSO	Starkville, Miss.	0.25	ND	U	IV	
	WAZF	Yazoo City, Miss.	0.25	ND	U	IV	
	KSWM	Joplin, Mo.	0.25	ND	U	IV	
	KLWT	Lebanon, Mo.	0.25	ND	U	IV	
	KNCM	Moberly, Mo.	0.25	ND	U	IV	
	KRES	S. Joseph, Mo.	0.25	ND	U	IV	Vide: 1550 kc/s.
	KANA	Anaconda, Mont.	0.25	ND	U	IV	
	KBMN	Bozeman, Mont.	0.25	ND	U	IV	
	KXLO	Lewinstown, Mont.	0.25	ND	U	IV	
	KLCB	Libby, Mont.	0.25	ND	U	IV	
	KIYI	Shelby, Mont.	0.25	ND	U	IV	
	KHAS	Hastings, Neb.	0.25	ND	U	IV	
	KELY	Ely, Nev.	0.25	ND	U	IV	
	KLAS	Las Vegas, Nev.	0.25	ND	U	IV	

1230 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1230 (Cont.)	KBOX	Reno, Nev.	0.25	ND	U	IV	
	WMOU	Berlin, N.H.	0.25	ND	U	IV	
	WTSV	Claremont, N.H.	0.25	ND	U	IV	
	KALG	Alamogondo, N.M.	0.25	ND	U	IV	
	KENE	Belen, N.M.	0.25	ND	U	IV	
	KGAK	Gallup, N.M.	0.25	ND	U	IV	
	KFUN	Las Vegas, N.M.	0.25	ND	U	IV	
	KSWS	Roswell, N.M.	0.25	ND	U	IV	
	WENY	Elmira, N.Y.	0.25	ND	U	IV	
	WHUC	Hudson, N.Y.	0.25	ND	U	IV	
	WFAS	White Plains, N.Y.	0.25	ND	U	IV	
	WISE	Asheville, N.C.	0.25	ND	U	IV	
	WWNF	Fayetteville, N.C.	0.25	ND	U	IV	
	WMFR	High Point, N.C.	0.25	ND	U	IV	
	WFTC	Kingston, N.C.	0.25	ND	U	IV	
	WNNC	Newton, N.C.	0.25	ND	U	IV	
	WCBT	Roanoke Rapids, N.C.	0.25	ND	U	IV	
	KDIX	Dickinson, N.D.	0.25	ND	U	IV	
	WCPO	Cincinnati, Ohio	0.25	ND	U	IV	
	WCOL	Columbus, Ohio	0.25	ND	U	IV	
	WTOL	Toledo, Ohio	0.25	ND	U	IV	
	KADA	Ada, Okla.	0.25	ND	U	IV	
	WBBZ	Ponca City, Okla.	0.25	ND	U	IV	
	KOOS	Coos Bay, Ore.	0.25	ND	U	IV	Vide: 630 kc/s.
	KYJC	Medford, Ore.	0.25	ND	U	IV	
	KNPT	Newport, Ore.	0.25	ND	U	IV	Vide: 1310 kc/s.
	KGON	Oregon City, Ore.	0.25	ND	U	IV	
	KODL	The Dalles, Ore.	0.25	ND	U	IV	55
	WHOL	Allentown, Pa.	0.25	ND	U	IV	
	WBVP	Beaver Falls, Pa.	0.25	ND	U	IV	
	WCDL	Carbondale, Pa.	0.25	ND	U	IV	
	WCED	Dubois, Pa.	0.25	ND	U	IV	
	WERC	Erie, Pa.	0.25	ND	U	IV	Vide: 1260 kc/s.
	WKBO	Harrisburg, Pa.	0.25	ND	U	IV	
	WCRO	Johnstown, Pa.	0.25	ND	U	IV	
	WBPZ	Lock Haven, Pa.	0.25	ND	U	IV	
	WKVM	Arecibo, P.R.	0.25	ND	U	IV	Vide: 1070 kc/s.
	WERI	Westerly, R.I.	0.25	ND	U	IV	
	WAIM	Anderson, S.C.	0.25	ND	U	IV	
	WNOK	Columbia, S.C.	0.25	ND	U	IV	
	WOLS	Florence, S.C.	0.25	ND	U	IV	
	WCAT	Rapid City, S.D.	0.25	ND	U	IV	56
	KISD	Sioux Falls, S.D.	0.25	ND	U	IV	
	WHBT	Harriman, Tenn.	0.25	ND	U	IV	
	WMMT	McMinnville, Tenn.	0.25	ND	U	IV	
	KSIX	Corpus Christi, Tex.	0.25	ND	U	IV	
	KDLK	Del Rio, Tex.	0.25	ND	U	IV	
	KNUZ	Houston, Tex.	0.25	ND	U	IV	
	KEVT	Kerrville, Tex.	0.25	ND	U	IV	
	KLVT	Levelland, Tex.	0.25	ND	U	IV	
	KOSF	Nacogdoches, Tex.	0.25	ND	U	IV	
	KOSA	Odessa, Tex.	0.25	ND	U	IV	
	KPAT	Pampa, Tex.	0.25	ND	U	IV	
	KSEY	Seymour, Tex.	0.25	ND	U	IV	

1230 - 1240 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1230 (Cont.)	KSST	Sulphur Springs, Tex.	0.25	ND	U	IV	
	KCMC	Texarkana, Tex.	0.25	ND	U	IV	
	KWTX	Waco, Tex.	0.25	ND	U	IV	
	KMUR	Murray, Utah	0.25	ND	U	IV	
	KOAL	Price, Utah	0.25	ND	U	IV	
	WJOY	Burlington, Vt.	0.25	ND	U	IV	
	WCFV	Clifton Forge, Va.	0.25	ND	U	IV	
	WFVA	Fredericksburg, Va.	0.25	ND	U	IV	
	WNOR	Norfolk, Va.	0.25	ND	U	IV	
	WPUV	Pulaski, Va.	0.25	ND	U	IV	
	WIVI	Christiansted. S. Crois, V.I.	0.25	ND	U	IV	
	KWIE	Kennewick, Wash.	0.25	ND	U	IV	Vide: 610 kc/s.
	KSPO	Spokane, Wash.	0.25	ND	U	IV	
	KREW	Sunnyside, Wash.	0.25	ND	U	IV	57
	WLOG	Logan, W.Va.	0.25	ND	U	IV	
	WAJR	Morgantown, W.Va.	0.25	ND	U	IV	
	WCOM	Parkersburg, W.Va.	0.25	ND	U	IV	
	WHBY	Appleton. Wis.	0.25	ND	U	IV	
	WCLO	Janesville, Wis.	0.25	ND	U	IV	
	WDSM	Superior, Wis.	0.25	ND	U	IV	Vide: 710 kc/s.
	KVOC	Casper, Wyo.	0.25	ND	U	IV	
	KOVE	Lander, Wyo.	0.25	ND	U	IV	
1240	WEBJ	Brewton, Ala.	0.25	ND	U	IV	
	WULA	Eufaula, Ala.	0.25	ND	U	IV	
	WMFT	Florence, Ala.	0.25	ND	U	IV	
	WJBY	Gadsden, Ala.	0.25	ND	U	IV	
	WWWB	Jasper, Ala.	0.25	ND	U	IV	
	WCOV	Montgomery, Ala.	0.25	ND	U	IV	
	KBYR	Anchorage, Alsk.	0.25	ND	U	IV	
	KWJB	Globe, Ariz.	0.25	ND	U	IV	
	KYUM	Yuma, Ariz.	0.25	ND	U	IV	Vide: 560 kc/s.
	KVRC	Arkadelphia, Ark.	0.25	ND	U	IV	
	KAGH	Crossett, Ark.	0.25	ND	U	IV	
	KHOZ	Harrison, Ark.	0.25	ND	U	IV	
	KWAK	Stuttgart, Ark.	0.25	ND	U	IV	
	KRDU	Dinuba, Calif.	0.25	ND	U	IV	
	KHUM	Eureka, Calif.	0.25	ND	U	IV	
	KMBY	Monterrey, Calif.	0.25	ND	U	IV	
	KPPC	Pasadena, Calif.	0.25	ND	U	IV	58
	KROY	Sacramento, Calif.	0.25	ND	U	IV	
	KRNO	S. Bernardino, Calif.	0.25	ND	U	IV	
	KSON	S. Diego, Calif.	0.25	ND	U	IV	
	KSMA	S. Maria, Calif.	0.25	ND	U	IV	
	KSUE	Susanville, Calif.	0.25	ND	U	IV	
	KRDO	Colorado Springs, Colo.	0.25	ND	U	IV	
	KUBC	Montrose, Colo.	0.25	ND	U	IV	Vide: 1260 kc/s.
	KCRT	Trinidad, Colo.	0.25	ND	U	IV	
	WWCO	Waterbury, Conn.	0.25	ND	U	IV	
	WINK	Fort Myers, Fla.	0.25	ND	U	IV	
	WFOY	S. Augustine, Fla.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1240 (Cont.)	WBHB	Fitzgerald, Ga.	0.25	ND	U	IV	
	WGGA	Gainesville, Ga.	0.25	ND	U	IV	
	WLAG	La Grange, Ga	0.25	ND	U	IV	
	WBML	Macon, Ga.	0.25	ND	U	IV	
	WPAX	Thomasville, Ga.	0.25	ND	U	IV	
	WTWA	Thomson, Ga.	0.25	ND	U	IV	
	KVNI	Coeur d'Alene, Ida.	0.25	ND	U	IV	
	KEYY	Pocatello, Ida.	0.25	ND	U	IV	
	KWEI	Weiser, Ida.	0.25	ND	U	IV	
	WCRW	Chicago, Ill.	0.25	ND	S.H. S-(WEDC, WSBC)	IV	58
	WEDC	Chicago, Ill.	0.25	ND	S.H. S-(WCRW, WSBC)	IV	
	WSBC	Chicago, Ill.	0.25	ND	S.H. S-(WCRW, WEDC	IV	
	WEBQ	Harrisburg, Ill.	0.25	ND	U	IV	
	WTAX	Springfield, Ill.	0.25	ND	U	IV	
	WSDR	Sterling, Ill.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WHBU	Anderson, Ind.	0.25	ND	U	IV	
	KDEC	Decorah, Ia.	0.25	ND	S-KWLC	IV	
	KWLC	Decorah, Ia.	0.25	ND	S-KDEC	IV	
	KBIZ	Ottumwa, Ia.	0.25	ND	U	IV	
	KICD	Spencer, Ia.	0.25	ND	U	IV	
	KIUL	Garden City, Kan.	0.25	ND	U	IV	
	KAKE	Wichita, Kan.	0.25	ND	U	IV	
	WINN	Louisville, Ky.	0.25	ND	U	IV	
	WFTM	Maysville, Ky.	0.25	ND	U	IV	
	WPKE	Pikeville, Ky.	0.25	ND	U	IV	
	WSFC	Somerset, Ky.	0.25	ND	U	IV	
	KANE	New Iberia, La.	0.25	ND	U	IV	
	WCOU	Lewiston, Me.	0.25	ND	U	IV	
	WCEM	Cambridge, Md.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WJEJ	Hagerstown, Md.	0.25	ND	U	IV	
	WHAI	Greenfield, Mass.	0.25	ND	U	IV	
	WOCB	West Yarmouth, Mass.	0.25	ND	U	IV	
	WATT	Cadillac, Mich.	0.25	ND	U	IV	
	WJPD	Ishpeming, Mich.	0.25	ND	U	IV	
	WJIM	Lansing, Mich.	0.25	ND	U	IV	
	WMFG	Hibbing, Minn.	0.25	ND	U	IV	
	WJON	S. Cloud, Minn.	0.25	ND	U	IV	
	—	Aberdeen, Miss.	0.25	ND	U	IV	
	WGRM	Greenwood, Miss.	0.25	ND	U	IV	
	WGCM	Gulfport, Miss.	0.25	ND	U	IV	
	WMOX	Meridian, Miss.	0.25	ND	U	IV	
	WMIS	Natchez, Miss.	0.25	ND	U	IV	
	KFMO	Flat River, Mo.	0.25	ND	U	IV	
	KWOS	Jefferson City, Mo.	0.25	ND	U	IV	
	KNEM	Nevada, Mo.	0.25	ND	U	IV	
	KBMY	Billings, Mont.	0.25	ND	U	IV	
	KAVR	Havre, Mont.	0.25	ND	U	IV	Vide: 910 kc/s.

1240 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1240 (Cont.)	KXLJ	Helena, Mont.	0.25	ND	U	IV	
	KFOR	Lincoln, Neb.	0.25	ND	U	IV	
	KODY	North Platte, Neb.	0.25	ND	U	IV	
	KELK	Elko, Nev.	0.25	ND	U	IV	11
	WKBR	Manchester, N.H.	0.25	ND	U	IV	
	WSNJ	Near Bridgeton, N.J.	0.25	ND	U	IV	
	KAVE	Carlsbad, N.M.	0.25	ND	U	IV	
	WGBB	Freeport, N.Y.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WGVA	Geneva, N.Y.	0.25	ND	U	IV	
	WJTN	Jamestown, N.Y.	0.25	ND	U	IV	
	WVOS	Liberty, N.Y.	0.25	ND	U	IV	
	WSNY	Schenectady, N.Y.	0.25	ND	U	IV	
	WATN	Watertown, N.Y.	0.25	ND	U	IV	
	WPNF	Brevard, N.C.	0.25	ND	U	IV	
	WSOC	Charlotte, N.C.	0.25	ND	U	IV	
	WCNC	Elizabeth City, N.C.	0.25	ND	U	IV	
	WJNC	Jacksonville, N.C.	0.25	ND	U	IV	
	WRAL	Raleigh, N.C.	0.25	ND	U	IV	
	WENC	Whiteville, N.C.	0.25	ND	U	IV	
	KDLR	Devils Lake, N.D.	0.25	ND	U	IV	
	WLOK	Lima, Ohio	0.25	ND	U	IV	
	WBBW	Youngstown, Ohio	0.25	ND	U	IV	
	WHIZ	Zanesville, Ohio	0.25	ND	U	IV	
	KVSO	Ardmore, Okla.	0.25	ND	U	IV	
	KASA	Elk City, Okla.	0.25	ND	U	IV	
	KHBG	Okmulgee, Okla.	0.25	ND	U	IV	
	KWIL	Albany, Ore.	0.25	ND	U	IV	
	KWRC	Pendleton, Ore.	0.25	ND	U	IV	
	KRXL	Roseburg, Ore.	0.25	ND	U	IV	
	WRTA	Altoona, Pa.	0.25	ND	U	IV	
	WHUM	Reading, Pa.	0.25	ND	U	IV	
	WKOK	Sunbury, Pa.	0.25	ND	U	IV	
	WBAX	Wilkes-Barre, Pa.	0.25	ND	U	IV	
	WABA	Aguadilla, P.R.	0.25	ND	U	IV	
	WJFR	Caguas, P.R.	0.25	ND	U	IV	
	WWON	Woonsocket, R.I.	0.25	ND	U	IV	
	WKDK	Newberry, S.C.	0.25	ND	U	IV	
	WBEJ	Elizabethton, Tenn.	0.25	ND	U	IV	
	WEKR	Fayetteville, Tenn.	0.25	ND	U	IV	
	WBIR	Knoxville, Tenn.	0.25	ND	U	IV	
	WKDA	Nashville, Tenn.	0.25	ND	U	IV	
	WENK	Union City, Tenn.	0.25	ND	U	IV	
	KVLF	Alpine, Tex.	0.25	ND	U	IV	
	KORA	Bryan, Tex.	0.25	ND	U	IV	
	KGBS	Harlingen, Tex.	0.25	ND	U	IV	
	KTXJ	Jasper, Tex.	0.25	ND	U	IV	
	KOCA	Kilgore, Tex.	0.25	ND	U	IV	
	KXOX	Sweetwater, Tex.	0.25	ND	U	IV	
	WSKI	Montpelier, Vt.	0.25	ND	U	IV	
	WCHV	Charlottesville, Va.	0.25	ND	U	IV	
	WSSV	Petersburg, Va.	0.25	ND	U	IV	
	WROV	Roanoke, Va.	0.25	ND	U	IV	
	KXLE	Ellensburg, Wash.	0.25	ND	U	IV	

FREQUENCY / FRECUENCIA / FREQUENCE kc/s	CALL LETTERS / LETRAS DE LLAMADA / INDICATIF D'APPEL	STATION / ESTACIÓN / STATION	POWER / POTENCIA / PUISSANCE kw	ANTENNA / ANTENA / ANTENNE	SCHEDULE / HORARIO / HORAIRE	CLASS / CLASE / CLASSE	OBSERVATIONS / OBSERVACIONES / OBSERVATIONS
1240 (Cont.)	KGY	Olympia, Wash.	0.25	ND	U	IV	
	WKOY	Bluefield, W. Va.	0.25	ND	U	IV	
	WTIP	Charleston, W. Va.	0.25	ND	U	IV	
	WDNE	Elkins, W. Va.	0.25	ND	U	IV	
	WOMT	Manitowoc, Wis.	0.25	ND	U	IV	
	WIBU	Poynette, Wis.	0.25	ND	U	IV	
	WOBT	Rhinelander, Wis.	0.25	ND	U	IV	
	WJMC	Rice Lake, Wis.	0.25	ND	U	IV	
	KFBC	Cheyenne, Wyo.	0.25	ND	U	IV	Vide: 710 kc/s.
	KRAL	Rawlins, Wyo.	0.25	ND	U	IV	
1250	WZOB	Fort Payne, Ala.	1	ND	D	III	
	KGHI	Little Rock, Ark.	1 D 0.5 N	DA-N	U	III	
	KTMS	S. Barbara, Calif.	1	DA-1	U	III	
	WDAE	Tampa, Fla.	5	DA-1	U	III	
	WGL	Fort Wayne, Ind.	1	DA-2	U	III	
	WRAY	Princeton, Ind.	1	ND	D	III	
	KFKU	Lawrence, Kan.	5	DA-N	S-WREN	III	59
	WREN	Topeka, Kan.	5	DA-N	S-KFKU	III	
	WARE	Ware, Mass.	1	ND	D	III	
	KAAA	Red Wing, Minn.	1	ND	D	III	
	WSKB	McComb, Miss.	5 D 0.5 N	DA-N	U	III	
	WMTR	Morristown, N.J.	1	ND	D	III	
	WBRM	Marion, N.C.	1	ND	D	III	
	WCAE	Pittsburgh, Pa.	5	DA-N	U	III	
	WNOW	York, Pa.	1	ND	D	III	
	WTMA	Charleston, S.C.	5 D 1 N	DA-N	U	III	
	KFTV	Paris, Tex.	0.5	ND	D	III	
	KPAC	Port Arthur, Tex.	5 D 1 N	DA-N	U	III	
	WDVA	Danville, Va.	5 D 1 N	DA-N	U	III	
	KWSC	Pullman, Wash.	5	ND	S-KTW	III	
	KTW	Seattle, Wash.	1	ND	S-KWSC	III	
	WMAW	Milwaukee, Wis.	5	DA-2	U	III	
1260	KGIL	S. Fernando, Calif.	1	DA-1	U	III	
	KYA	S. Francisco, Calif.	5 D 1 N	ND	U	III	
	KFTM	Fort Morgan, Colo.	0.5	ND	D	III	
	KUBC	Montrose, Colo.	1 D 0.5 N	DA-N	U	III	4
	WAVZ	New Haven, Conn.	1	ND	D	III	
	WWDC	Washington, D.C.	5	DA-1	U	III	
	WTJH	East Point, Ga.	1	ND	D	III	
	WBND	Belleville, Ill.	1	DA-N	U	III	
	WFBM	Indianapolis, Ind.	5	DA-N	U	III	
	KFGQ	Boone, Ia.	0.25	ND	D	IV	

1260 - 1280 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1260	WGRO	Bay City, Mich.	0.5	ND	D	III	
(Cont.)	KROX	Crookston, Minn.	1 D 0.5 N	DA-N	U	III	60
	WGVM	Greenville, Miss.	1	ND	D	III	
	WNAC	Boston, Mass.	5	DA-N	U	III	
	KGBX	Springfield, Mo.	5	DA-N	U	III	
	WBUD	Trenton, N.J.	1	DA-1	U	III	61
	KVSF	S. Fe, N.M.	1	ND	U	III	
	WNDR	Syracuse, N.Y.	5	DA-N	U	III	
	WGWR	Asheboro, N.C.	1	ND	D	III	
	WDOK	Cleveland, Ohio	5	DA-2	U	III	
	WNXT	Portsmouth, Ohio	1	DA-1	U	III	
	KSMI	Seminole, Okla.	0.5	ND	D	III	
	KMCM	McMinnville, Ore.	1	DA-N	U	III	
	WERC	Erie, Pa.	5	DA-2	U	III	20
	WMUU	Greenville, S.C.	1	ND	D	III	
	KTAE	Taylor, Tex.	1	ND	D	III	
	KPOW	Powell, Wyo.	1	DA-N	U	III	
1270	WGSV	Guntersville, Ala.	1	ND	D	III	
	KCOK	Tulare, Calif.	1	DA-N	U	III	
	WTAL	Tallahassee, Fla.	5	DA-N	U	III	
	KTFI	Twin Falls, Ida.	5 D 1 N	ND	U	III	
	WHBF	Rock Island, Ill.	5	DA-N	U	III	
	WWCA	Gary, Ind.	1	DA-1	U	III	
	KSCB	Liberal, Kan.	1	ND	D	III	
	WSPR	Springfield, Mass.	1	DA-1	U	III	
	WXYZ	Detroit, Mich.	5	DA-N	U	III	
	WHLD	Niagara Falls, N.Y.	5	DA-D	D	III	
	WDLA	Walton, N.Y.	1	ND	D	III	
	WMPM	Smithfield, N.C.	1	ND	D	III	
	KGCU	Mandan, N.D.	1 D 0.25 N	ND	U	III-IV	
	WILE	Cambridge, Ohio	1	ND	D	III	
	KBND	Bend, Ore.	1	DA-N	U	III	93
	WLBR	Lebanon, Pa.	1	DA-N	U	III	
	WTND	Orangeburg, S.C.	1	ND	D	III	
	KIHO	Sioux Falls, S.D.	1	DA-1	U	III	
	KIOX	Bay City, Tex.	1	DA-N	U	III	
	KFJZ	Forth Worth, Tex.	5	DA-1	U	III	
	WHYU	Newport News, Va.	1	ND	D	III	
1280	KNBY	Newport, Ark.	1	ND	D	III	
	KFOX	Long Beach, Calif.	1	ND	U	III	
	KXOB	Stockton, Calif.	1	DA-N	U	III	
	KSTR	Trinidad, Colo.	1 D 0.5 N	ND	U	III	
	WIBB	Macon, Ga.	1	ND	D	III	
	WMRO	Aurora, Ill.	0.25	ND	D	IV	
	WGBF	Evansville, Ind.	5	DA-N	U	III	6

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1280	KBOK	Waterloo, Ia.	1	DA-2	U	III	62
(Cont.)	KSOK	Arkansas City, Kan.	1	ND	D	III	
	WDSU	New Orleans, La.	5	DA-1	U	III	
	WEIM	Fitchburg, Mass.	1	DA-2	U	III	11
	WFYC	Alma, Mich.	1	ND	D	III	
	WTCN	Minneapolis, Minn.	5 D 1 N	ND	U	III	
	—	Clinton, Mo.	1	ND	D	II	
	KNBR	North Platte, Neb.	1	ND	D	III	
	WHBI	Newark, N.J.	2.5 D 1 N	ND	S-WOV	III	
	WOV	New York, N.Y.	5	DA-1	S-WHBI	III	
	WVET	Rochester, N.Y.	5	DA-N	U	III	
	WSAT	Salisbury, N.C.	1	DA-N	U	III	
	WONW	Defiance, Ohio	0.5	ND	D	III	
	KERG	Eugene, Ore.	1	DA-N	U	III	
	WHVR	Hanover, Pa.	1 D 0.5 N	DA-N	U	III	
	WKST	New Castle, Pa.	1	DA-N	U	III	
	WCMN	Arecibo, P.R.	1	ND	U	III	
	WANS	Anderson, S.C.	1	DA-N	U	III	PO: 1 kW, D.
	WJAY	Mullins, S.C.	1	ND	D	III	
	KWHI	Brenham, Tex.	1	ND	D	III	
	KLTI	Longview, Tex.	1	ND	D	III	
	KSNY	Snyder, Tex.	0.5	ND	D	III	
	KNAK	Salt Lake City, Utah	1 D 0.5 N	DA-N	U	III	
	WINA	Charlottesville, Va.	1	ND	D	III	
	WYVE	Wytheville, Va.	1	ND	D	III	
	KIT	Yakima, Wash.	5 D 1 N	ND	U	III	
	WNAM	Neenah, Wis.	1	DA-N	U	III	
1290	WPBB	Jackson, Ala.	1	ND	D	III	
	WMLS	Sylacauga, Ala.	1	ND	D	III	
	KFRB	Fairbanks, Alsk.	5	ND	U	III	38
	KVOA	Tucson, Ariz.	1	ND	U	III	
	KDMS	El Dorado, Ark.	1	ND	D	III	
	KUOA	Siloam Springs, Ark.	5	ND	D	III	
	KHSL	Chico, Calif.	5	DA-N	U	III	
	KITO	S. Bernardino, Cal.	5	DA-2	U	III	
	WCCC	Hartford, Conn.	0.5	ND	D	III	
	WTUX	Wilmington, Del.	0.5	ND	D	III	
	WTMC	Ocala, Fla.	1	DA-N	U	III	
	WIRK	West Palm Beach, Fla.	1	DA-2	U	III	
	WTOC	Savannah, Ga.	5	DA-N	U	III	
	WIRL	Peoria, Ill.	5	DA-2	U	III	
	KJEF	Jennings, La.	0.5	ND	D	III	
	KGVO	Missoula, Mont.	5	DA-1	U	III	
	KOIL	Omaha, Neb.	5	DA-N	U	III	
	WKNE	Keene, N.H.	5	DA-2	U	III	63
	WNBF	Binghamton, N.Y.	5	DA-N	U	III	

1290 - 1310 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1290 (Cont.)	WHKY	Hickory, N.C.	5 D 1 N	DA-N	U	III	
	WTRF	Bellaire, Ohio	1	ND	D	III	
	WHIO	Dayton, Ohio	5	DA-N	U	III	
	KBKO	Portland, Ore.	1	ND	D	III	
	WJSW	Altoona, Pa.	1 D 0.5 N	DA-N	U	III	
	WDEM	Providence, R.I.	0.5	ND	D	III	
	KRGV	Welasco, Tex.	5	DA-N	U	III	
	KTRN	Wichita Falls, Tex.	5 D 1 N	DA-N	U	III	
	WVOW	Logan, W. Va.	5 D 1 N	DA-1	U	III	
	WMIL	Milwaukee, Wis.	1	ND	D	III	
1300	WFMH	Cullman, Ala.	1	ND	D	III	
	KROP	Brawley, Calif.	1 D 0.5 N	ND	U	III	
	KYNO	Fresno, Calif.	1	DA-2	U	III	
	KWKW	Pasadena, Calif.	1	DA-N	U	III	
	KVOR	Colorado Springs, Colo.	1	ND	U	III	
	WLIZ	Bridgeport, Conn.	1	ND	D	III	
	WGRA	Cairo, Ga.	1	ND	D	III	
	WTAQ	LaGrange, Ill.	0.5	ND	D	III	
	—	West Frankfort, Ill.	1	ND	D	III	
	KGLO	Mason City, Ia.	5	DA-N	U	III	
	WKLX	Lexington, Ky.	1	DA-N	U	III	
	WIBR	Baton Rouge, La.	1	DA-2	U	III	64
	WFBR	Baltimore, Md.	5	DA-1	U	III	
	WJDA	Quincy, Mass.	1	ND	D	III	
	WOOD	Grand Rapids, Mich.	5	DA-N	U	III	
	WJDX	Jackson, Miss.	5 D 1 N	ND	U	III	
	KMMO	Marshall, Mo.	0.5	ND	D	III	
	WTNJ	Trenton, N.J.	0.25	ND	D	IV	
	WOSC	Fulton, N.Y.	1	ND	D	III	
	WERE	Cleveland, Ohio	5	DA-1	U	III	
	KOME	Tulsa, Okla.	5 D 1 N	DA-2	U	III	
	WTIL	Mayaguez, P.R.	1	ND	U	III	
	WDKD	Kingstree, S.C.	1	ND	D	III	
	WMAK	Nashville, Tenn.	5	DA-1	U	III	
	KVET	Austin, Tex.	1	DA-N	U	III	
	KOL	Seattle, Wash.	5	DA-1	U	III	
1310	KTYL	Mesa, Ariz.	1 D 0.5 N	DA-N	U	III	1
	KWBR	Oakland, Calif.	1	ND	U	III	
	KTKR	Taft, Calif.	0.5	ND	D	III	
	KFKA	Greeley, Colo.	1	DA-N	U	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1310	WSMF	Dade City, Fla.	1		ND	D	III	
(Cont.)	KLIX	Twin Falls, Ida.	5	D	DA-2	U	III	11
			1	N				
	WISH	Indianapolis, Ind.	5	D	DA-N	U	III	
			1	N				
	KOKX	Keokuk, Ia.	1	D	DA-2	U	III	PO: 0.25 kW, D.
			0.5	N				
	WORC	Worcester, Mass.	1		DA-1	U	III	
	WKMH	Dearborn, Mich.	5	D	DA-2	U	III	
			1	N				
	KFSB	Joplin, Mo.	5	D	DA-2	U	III	
			1	N				
	KFBB	Great Falls, Mont.	5		DA-N	U	III	
	WJLK	Asbury Park, N.J.	0.25		ND	U	IV	
	WCAM	Camden, N.J.	0.25		ND	U	IV	
	WGAT	Utica, N.Y.	1	D	DA-N	U	III	
			0.5	N				
	WTIK	Durham, N.C.	1	D	DA-N	U	III	
			0.5	N				
	KNPT	Newport, Ore.	1		DA-N	U	III	20
	WNAE	Warren, Pa.	1		ND	D	III	
	WDOD	Chattanooga, Tenn.	5		DA-N	U	III	
	WDXI	Jackson, Tenn.	5	D	DA-N	U	III	
			1	N				
	WRR	Dallas, Tex.	5		DA-N	U	III	
	WGH	Newport News, Va.	5		DA-1	U	III	
	WIBA	Madison, Wis.	5		DA-N	U	III	
1320	WAGF	Dothan, Ala.	1		DA-N	U	III	
	KWHN	Fort Smith, Ark.	5		DA-N	U	III	
	KCRA	Sacramento, Calif.	1		DA-1	U	III	
	WATR	Waterbury, Conn.	1		DA-1	U	III	
	WJHP	Jacksonville, Fla.	5		DA-N	U	III	
	WKAN	Kankakee, Ill.	1		ND	D	III	
	KLWN	Lawrence, Kan.	0.5		ND	D	III	
	WNGO	Mayfield, Ky.	1		ND	D	III	
	WARA	Attleboro, Mass.	1		DA-2	U	III	
	WILS	Lansing, Mich.	1		DA-N	U	III	
	WDMJ	Marquette, Mich.	1		DA-N	U	III	11
	WEBC	Duluth, Minn.	5		DA-N	U	III	
	WRJW	Picayune, Miss.	1		ND	D	III	
	KXLW	Clayton, Mo.	1		ND	D	III	
	KOLT	Scottsbluff, Neb.	5	D	DA-2	U	III	
			1	N				
	WLEA	Hornell, N.Y.	1		ND	D	III	
	WCOG	Greensboro, N.C.	1		DA-1	U	III	
	WHOK	Lancaster, Ohio	0.5		ND	D	III	
	KWOE	Clinton, Okla.	1		ND	D	III	
	WKAP	Allentown, Pa.	1		DA-N	U	III	65
	WJAS	Pittsburgh, Pa.	5		DA-N	U	III	
	WSCR	Scranton, Pa.	1	D	DA-N	U	III	66
			0.5	N				

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1320 (Cont.)	WRIO	Rio Piedras, P.R.	1	ND	U	III	67
	WMSC	Columbia, S.C.	1 D 0.5 N	DA-N	U	III	
	KELO	Sioux Falls, S.D.	5	DA-N	U	III	
	KVMC	Colorado City, Tex.	0.5	ND	D	III	
	KXYZ	Houston, Tex.	5	DA-N	U	III	
	KDYL	Salt Lake City, Utah	5	DA-1	U	III	
	KXRO	Aberdeen, Wash.	1	DA-N	U	III	
1330	KFAC	Los Angeles, Calif.	5	DA-N	U	III	
	WJPS	Evansville, Ind.	5 D 1 N	DA-2	U	III	
	KWWL	Waterloo, Ia.	5 D 1 N	DA-2	U	III	
	KFH	Wichita, Kan.	5	DA-N	U	III	
	KVOL	Lafayette, La.	1	DA-N	U	III	11
	WASA	Havre de Grace, Md.	1	ND	D	III	
	WCRB	Waltham, Mass.	1	ND	D	III	
	WBBC	Flint, Mich.	1	DA-2	U	III	
	WLOL	Minneapolis, Minn.	5	DA-1	U	III	
	WBBR	New York, N.Y.	5	DA-1	S-WEVD WHAZ	III	
	WEVD	New York, N.Y.	5	DA-2	S-WBBR WHAZ	III	
	WHAZ	Troy, N.Y.	1	ND	S-WBBR WEVD	III	
	WFIN	Findlay, Ohio	1	ND	D	III	
	KPOJ	Portland, Ore.	5	DA-1.	U	III	
	WIKK	Erie, Pa.	5	DA-2	U	III	
	WFBC	Greenville, S.C.	5	DA-N	U	III	
	KSWA	Graham, Tex.	0.5	ND	D	III	
	KINE	Kingsville, Tex.	1	ND	D	III	
	WBTM	Danville, Va.	5 D 1 N	DA-N	U	III	
	WHBL	Sheboygan, Wis.	1 D 0.25 N	ND	U	III - IV	
1340	WCTA	Andalusia, Ala.	0.25	ND	U	IV	
	WKUL	Cullman, Ala.	0.25	ND	U	IV	
	WJOI	Florence, Ala.	0.25	ND	U	IV	
	WGWC	Selma, Ala.	0.25	ND	U	IV	
	WFEB	Sylacauga, Ala.	0.25	ND	U	IV	
	KIBH	Seward, Alsk.	0.25	ND	S.H.-(N)	IV	
	KCLS	Flagstaff, Ariz.	0.25	ND	U	IV	
	KRUX	Glendale, Ariz.	0.25	ND	U	IV	
	KNOG	Nogales, Ariz.	0.25	ND	U	IV	
	KCNA	Tucson, Ariz.	0.25	ND	U	IV	Vide: 580 kc/s.
	KBTA	Batesville, Ark.	0.25	ND	U	IV	
	KWFC	Hot Springs, Ark.	0.25	ND	U	IV	
	KBRS	Springdale, Ark.	0.25	ND	U	IV	
	KHAD	Delano, Calif.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1340 (Cont.)	KAVL	Lancaster, Calif.	0.25	ND	U	IV	
	KWSD	Mt. Shasta, Calif.	0.25	ND	U	IV	
	KSFE	Needles, Calif.	0.25	ND	U	IV	
	KDAN	Oroville, Calif.	0.25	ND	U	IV	
	KCMJ	Palm Springs, Calif.	0.25	ND	U	IV	
	KIST	S. Barbara, Calif.	0.25	ND	U	IV	
	KMNS	S. Luis Obispo, Calif.	0.25	ND	U	IV	
	KHUB	Near Watsonville, Calif.	0.25	ND	U	IV	
	KUCA	Ukiah, Calif.	0.25	ND	U	IV	
	KMYR	Denver, Colo.	0.25	ND	U	IV	
	KGLN	Glenwood Spring, Colo.	0.25	ND	U	IV	
	KLMR	Lamar, Colo.	0.25	ND	U	IV	
	KVRH	Salida, Colo.	0.25	ND	U	IV	
	WNHC	New Haven, Conn.	0.25	ND	U	IV	
	WINX	Washington, D.C.	0.25	ND	U	IV	
	WTAN	Clearwater, Fla.	0.25	ND	U	IV	
	WROD	Daytona Beach, Fla.	0.25	ND	U	IV	
	WDSR	Lake City, Fla.	0.25	ND	U	IV	
	WTYS	Marianna, Fla.	0.25	ND	U	IV	
	WWPG	Palm Beach, Fla.	0.25	ND	U	IV	
	WJCM	Sebring, Fla.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WGAU	Athens, Ga.	0.25	ND	U	IV	
	WBGE	Atlanta, Ga.	0.25	ND	U	IV	
	WBBQ	Augusta, Ga.	0.25	ND	U	IV	
	WGAA	Cedartown, Ga.	0.25	ND	U	IV	
	WDAK	Columbus, Ga.	0.25	ND	U	IV	
	WMLT	Dublin, Ga.	0.25	ND	U	IV	
	WWGS	Tifton, Ga.	0.25	ND	U	IV	
	KGEM	Boise, Ida.	0.25	ND	U	IV	Vide: 1140 kc/s.
	KPST	Preston, Ida.	0.25	ND	U	IV	
	KLIX	Twin Falls, Ida.	0.25	ND	U	IV	Vide: 1310 kc/s.
	WSOY	Decatur, Ill.	0.25	ND	U	IV	
	WJPF	Herrin, Ill.	0.25	ND	U	IV	
	WJOL	Joliet, Ill.	0.25	ND	U	IV	
	WBIW	Bedford, Ind.	0.25	ND	U	IV	
	WTRC	Elkhart, Ind.	0.25	ND	U	IV	
	WLBC	Muncie, Ind.	0.25	ND	U	IV	
	KROS	Clinton, Ia.	0.25	ND	U	IV	
	KCKN	Kansas City, Kan.	0.25	ND	U	IV	
	KSEK	Pittsburg, Kan.	0.25	ND	U	IV	
	WCMI	Ashland, Ky.	0.25	ND	U	IV	
	WLBJ	Bowling Green, Ky.	0.25	ND	U	IV	Vide: 1410 kc/s.
	WKIC	Hazard, Ky.	0.25	ND	U	IV	
	WLEX	Lexington, Ky.	0.25	ND	U	IV	
	WNBS	Murray, Ky.	0.25	ND	U	IV	
	KVOL	Lafayette, La.	0.25	ND	U	IV	Vide: 1330 kc/s.
	KRMD	Shreveport, La.	0.25	ND	U	IV	
	WFAU	Augusta, Me.	0.25	ND	U	IV	
	WABM	Houlton, Me.	0.25	ND	U	IV	
	WEIM	Fitchburg, Mass.	0.25	ND	U	IV	Vide: 1310 kc/s.
	WNBH	New Bedford, Mass.	0.25	ND	U	IV	
	WBRK	Pittsfield, Mass.	0.25	ND	U	IV	

1340 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1340 (Cont.)	WLAV	Grand Rapids, Mich.	0.25	ND	U	IV	
	WMTE	Manistee, Mich.	0.25	ND	U	IV	
	WDMJ	Marquette, Mich.	0.25	ND	U	IV	Vide: 1320 kc/s.
	WMBN	Petoskey, Mich.	0.25	ND	U	IV	
	WEXL	Royal Oak, Mich.	0.25	ND	U	IV	
	WEVE	Eveleth, Minn.	0.25	ND	U	IV	
	KVOX	Moorehead, Minn.	0.25	ND	U	IV	
	KROC	Rochester, Minn.	0.25	ND	U	IV	
	KWLM	Willmar, Minn.	0.25	ND	U	IV	
	WJMB	Brookhaven, Miss.	0.25	ND	U	IV	
	WCBI	Columbus, Miss.	0.25	ND	U	IV	
	WJPR	Greenville, Miss.	0.25	ND	U	IV	
	WKOZ	Kosciusko, Miss.	0.25	ND	U	IV	
	WAML	Laurel, Miss.	0.25	ND	U	IV	
	KXEO	Mexico, Mo.	0.25	ND	U	IV	
	KWOC	Poplar Bluff, Mo.	0.25	ND	U	IV	
	KICK	Springfield, Mo.	0.25	ND	U	IV	
	KFDW	Helena, Mont.	0.25	ND	U	IV	
	KGEZ	Kalispell, Mont.	0.25	ND	U	IV	
	KPRK	Livingston, Mont.	0.25	ND	U	IV	
	KRJF	Miles City, Mont.	0.25	ND	U	IV	
	KFGT	Fremont, Neb.	0.25	ND	U	IV	PO: 0.1 kW, U.
	KGFW	Kearny, Neb.	0.25	ND	U	IV	
	KELK	Elko, Nev.	0.25	ND	U	IV	Vide: 1240 kc/s.
	KATO	Reno, Nev.	0.25	ND	U	IV	
	WLNH	Laconia, N.H.	0.25	ND	U	IV	
	WMID	Atlantic City, N.J.	0.25	ND	U	IV	
	KVER	Albuquerque, N.M.	0.25	ND	U	IV	
	KSIL	Silver City, N.M.	0.25	ND	U	IV	
	WMBO	Auburn, N.Y.	0.25	ND	U	IV	
	WENT	Gloversville, N.Y.	0.25	ND	U	IV	
	WJOC	Jamestown, N.Y.	0.25	ND	U	IV	68
	WUSJ	Lockport, N.Y.	0.25	ND	U	IV	
	WMSA	Massena, N.Y.	0.25	ND	U	IV	
	WALL	Middletown, N.Y.	0.25	ND	U	IV	
	WIRY	Plattsburg, N.Y.	0.25	ND	U	IV	
	WJRI	Lenoir, N.C.	0.25	ND	U	IV	
	WTSB	Lumberton, N.C.	0.25	ND	U	IV	
	WOXF	Oxford, N.C.	0.25	ND	U	IV	
	WHED	Washington, N.C.	0.25	ND	U	IV	
	WGNI	Wilmington, N.C.	0.25	ND	U	IV	
	WAIR	Winston-Salem, N.C.	0.25	ND	U	IV	
	WATG	Ashland, Ohio	0.25	ND	U	IV	
	WIZE	Springfield, Ohio	0.25	ND	U	IV	
	WSTV	Steubenville, Ohio	0.25	ND	U	IV	
	KIHN	Hugo, Okla.	0.25	ND	U	IV	
	KOCY	Oklahoma City, Okla.	0.25	ND	U	IV	
	—	Tulsa, Okla.	0.25	ND	U	IV	
	KRUL	Corvallis, Ore.	0.25	ND	U	IV	
	KUIN	Grants Pass, Ore.	0.25	ND	U	IV	
	KIHR	Hood River, Ore.	0.25	ND	U	IV	
	KFIR	North Bend, Ore.	0.25	ND	U	IV	
	WFBG	Altoona, Pa.	0.25	ND	U	IV	

1340 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1340 (Cont.)	WCVI	Connellsville, Pa.	0.25	ND	U	IV	
	WSAJ	Grove City, Pa.	0.25	ND	S.H.	IV	58
	WKRZ	Oil City, Pa.	0.25	ND	L-WSAJ	IV	
	WHAT	Philadelphia, Pa.	0.25	ND	U	IV	
	WRAW	Reading, Pa.	0.25	ND	U	IV	
	WBRE	Wilkes-Barre, Pa.	0.25	ND	U	IV	
	WWPA	Williamsport, Pa.	0.25	ND	U	IV	
	WHAN	Charleston, S.C.	0.25	ND	U	IV	
	WRHI	Rock Hill, S.C.	0.25	ND	U	IV	
	WFIG	Sumter, S.C.	0.25	ND	U	IV	
	KIJV	Huron, S.D.	0.25	ND	U	IV	
	WBAC	Cleveland, Tenn.	0.25	ND	U	IV	
	WKRM	Columbia, Tenn.	0.25	ND	U	IV	
	WGRV	Greenville, Tenn.	0.25	ND	U	IV	
	WKGN	Knoxville, Tenn.	0.25	ND	U	IV	
	WHHM	Memphis, Tenn.	0.25	ND	U	IV	
	WCDT	Winchester, Tenn.	0.25	ND	U	IV	
	KWKC	Abilene, Tex.	0.25	ND	U	IV	
	KAND	Corsicana, Tex.	0.25	ND	U	IV	
	KSET	El Paso, Tex.	0.25	ND	U	IV	
	KNAF	Fredericksburg, Tex.	0.25	ND	U	IV	
	KFYO	Lubbock, Tex.	0.25	ND	U	IV	
	KRBA	Lufkin, Tex.	0.25	ND	U	IV	
	KVKM	Monahans, Tex.	0.25	ND	U	IV	
	KPDN	Pampa, Tex.	0.25	ND	U	IV	
	KOLE	Port Arthur, Tex.	0.25	ND	U	IV	
	KTXL	S. Angelo, Tex.	0.25	ND	U	IV	
	KVIC	North of Victoria, Tex.	0.25	ND	U	IV	
	KJAM	Vernal, Utah	0.25	ND	U	IV	
	WTWN	S. Johnsbury, Vt.	0.25	ND	U	IV	
	WKEY	Covington, Va.	0.25	ND	U	IV	
	WHAP	Hopewell, Va.	0.25	ND	U	IV	
	WJMA	Orange, Va.	0.25	ND	U	IV	
	WRAD	Radford, Va.	0.25	ND	U	IV	
	WSTA	Charlotte Amalie, S. Thomas, V.I.	0.25	ND	U	IV	
	KPKW	Pasco, Wash.	0.25	ND	U	IV	
	KAPA	Raymond, Wash.	0.25	ND	U	IV	
	KWNW	Wenatchee, Wash.	0.25	ND	U	IV	
	WHAR	Clarksburg, W. Va.	0.25	ND	U	IV	
	WEPM	Martinsburg, W. Va.	0.25	ND	U	IV	
	WMON	Montgomery, W. Va.	0.25	ND	U	IV	Vide: 790 kc/s.
	WBRW	Welch, W. Va.	0.25	ND	U	IV	
	WLDY	Ladysmith, Wis.	0.25	ND	U	IV	
	WEMP	Milwaukee, Wis.	0.25	ND	U	IV	
	WFHR	Wisconsin Rapids, Wis.	0.25	ND	U	IV	
	KOWB	Laramie, Wyo.	0.25	ND	U	IV	

1350 - 1360 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1350	WGAD	Gadsden, Ala.	5 D 1 N	DA-N	U	III	
	KCSB	S. Bernardino, Calif.	0.5	DA-N	U	III	PO: 0.5 kW, D.
	KSRO	S. Rosa, Calif.	1	DA-1	U	III	
	KGHF	Pueblo, Colo.	5 D 1 N	DA-N	U	III	
	WNLK	Norwalk, Conn.	0.5	DA-N	U	III	
	KID	Idaho Falls, Ida.	5 D 0.5 N	ND	U	III	Vide: 590 kc/s.
	KRLC	Lewiston, Ida.	1	DA-N	U	III	
	WEEK	Peoria, Ill.	1	DA-2	U	III	
	WIOU	Kokomo, Ind.	1	DA-2	U	III	
	KRNT	Des Moines, Ia.	5	DA-N	U	III	
	KMAN	Manhattan, Kan.	0.5	ND	D	III	
	WLOU	Louisville, Ky.	1	ND	D	III	
	WSMB	New Orleans, La.	5	DA-N	U	III	
	KREI	Farmington, Mo.	1	ND	D	III	
	WCBA	Corning, N.Y.	1	ND	D	III	
	WHIP	Mooresville, N.C.	1	ND	D	III	
	WADC	Akron, Ohio	5	DA-1	U	III	
	KRHD	Duncan, Okla.	0.25 D 0.1 N	ND	U	IV	
	WORK	York, Pa.	5 D 1 N	DA-N	U	III	
	KCOR	S. Antonio, Tex.	5 D 1 N	DA-2	U	III	
	WSAP	Portsmouth, Va.	5	DA-2	U	III	1
1360	WEIR	Roanoke, Ala.	1	ND	D	III	
	KFFA	Helena, Ark.	1	DA-N	U	III	
	KMOD	Modesto, Calif.	1	DA-N	U	III	
	KGB	S. Diego, Calif.	1	ND	U	III	
	WDRC	Hartford, Conn.	5	DA-1	U	III	
	WOBS	Jacksonville, Fla.	1	ND	D	III	
	WKAT	Miami Beach, Fla.	5 D 1 N	ND	U	III	
	WLBK	DeKalb, Ill.	0.5	ND	D	III	
	WVMC	Mount Carmel, Ill.	0.5	ND	D	III	
	KXGI	Forth Madison, Ia.	0.5	ND	D	III	
	KSCJ	Sioux City, Ia.	5	DA-N	U	III	
	WLYN	Lynn, Mass.	1	ND	D	III	
	WGFG	Kalamazoo, Mich.	1	DA-N	U	III	
	WWBZ	Vineland, N.J.	1	DA-N	U	III	PO: 1 kW, D.
	WKOP	Binghamton, N.Y.	1 D 0.5 N	DA-N	U	III	
	WEEB	Southern Pines, N.C.	1	ND	D	III	
	WSAI	Cincinnati, Ohio	5	DA-N	U	III	
	WMCK	McKeesport, Pa.	1	DA-N	U	III	
	WPPA	Pottsville, Pa.	1 D 0.5 N	DA-N	U	III	
	WELP	Easley, S.C.	1	ND	D	III	
	WNAH	Nashville, Tenn.	1	ND	D	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1360	KREL	Baytown, Tex.	1	DA-2	U	III	
(Cont.)	KRIS	Corpus Christi, Tex.	1	ND	U	III	
	KXOL	Fort Worth, Tex.	1	DA-N	U	III	
	KMO	Tacoma, Wash.	5	ND	U	III	
	WBAY	Green Bay, Wis.	5	DA-N	U	III	
	WMNE	Menomonie, Wis.	0.5	ND	D	III	
	KVRS	Rock Springs, Wyo.	1 D 0.5 N	DA-N	U	III	
1370	KBUC	Corona, Calif.	0.5	DA-N	U	III	
	KEEN	S. Jose, Calif.	1	DA-1	U	III	
	WCOA	Pensacola, Fla.	5	DA-N	U	III	
	WBGR	Jesup, Ga.	1	ND	D	III	
	WPRC	Lincoln, Ill.	0.5	ND	D	III	
	WTTS	Bloomington, Ind.	5 D 0.5 N	DA-2	U	III	69
	WGRY	Gary, Ind.	0.5	ND	D	III	
	KDTH	Dubuque, Ia.	1	DA-N	U	III	
	KGNO	Dodge City, Kan.	1 D 0.25 N	ND	U	III-IV	
	KSUM	Fairmont, Minn.	1	DA-2	U	III	
	KCRV	Caruthersville, Mo.	1	ND	D	III	
	KXLF	Butte, Mont.	5	ND	U	III	
	WFEA	Manchester, N.H.	5	DA-1	U	III	
	—	East Patchogue, N.Y.	0.5	ND	D	III	
	WSAY	Rochester, N.Y.	5	DA-N	U	III	70
	WLTC	Gastonia, N.C.	1	ND	D	III	
	WSPD	Toledo, Ohio	5	DA-N	U	III	
	KAST	Astoria, Ore.	1	DA-N	U	III	
	WPAB	Ponce, P.R.	5	ND	U	III	Vide: 550 kc/s.
	WDEF	Chattanooga, Tenn.	5 D 1 N	DA-N	U	III	
	KTXN	Austin, Tex.	1	ND	D	III	
	KFRO	Longview, Tex.	1	DA-N	U	III	
1380	KSBW	Salinas, Calif.	1	DA-1	U	III	
	WAMS	Wilmington, Del.	1	DA-1	U	III	71
	WTSP	S. Petersburg, Fla.	5	DA-N	U	III	
	WATL	Atlanta, Ga.	5	DA-N	U	III	
	KIDO	Boise, Ida.	2.5 D 1 N	ND	U	III	Vide: 630 kc/s.
	WKJG	Fort Wayne, Ind.	5	DA-2	U	III	
	KCIM	Carroll, Ia.	1	DA-2	U	III	
	WTTH	Port Huron, Mich.	1	DA-1	U	III	
	KWK	S. Louis, Mo.	5	DA-N	U	III	
	WAWZ	Zarephath, N.J.	5 D 1 N	DA-1	S-WBNX	III	
	WBNX	New York, N.Y.	5	DA-1	S-WAWZ	III	
	WLOS	Asheville, N.C.	5 D 1 N	DA-N	U	III	
	WTOB	Winston-Salem, N.C.	1	DA-1	U	III	72
	KSWO	Lawton, Okla.	1	DA-2	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1380 (Cont.)	KMUS	Muskogee, Okla.	1 D 0.5 N	DA-N	U	III	
	WLXW	Carlisle, Pa.	1	ND	D	III	
	WACB	Kittanning, Pa.	0.5	ND	D	III	
	WPAW	Pawtucket, R.I.	0.5	ND	D	III	
	KOTA	Rapid City, S.D.	5	DA-N	U	III	
	KPBX	Beaumont, Tex.	1	ND	D	III	
	KBWD	Brownwood, Tex.	1 D 0.5 N	ND	U	III	
	KTSM	El Paso, Tex.	1 D 0.5 N	ND	U	III	
	New	Pleasanton, Tex.	1	ND	D	III	
	WSYB	Rutland, Vt.	1	DA-N	U	III	
	WMBG	Richmond, Va.	5	DA-N	U	III	
	KRKO	Everett, Wash.	1	DA-N	U	III	16
	WBEL	Beloit, Wis.	1	ND	D	III	
1390	WSPC	Anniston, Ala.	1	DA-1	U	III	
	KGER	Long Beach, Calif.	5	DA-N	U	III	
	KTUR	Turlock, Calif.	1	DA-N	U	III	
	WGES	Chicago, Ill.	5	DA-2	U	III	
	WJCD	Seymour, Ind.	0.5	ND	D	III	
	KCBC	Des Moines, Ia.	1	DA-1	U	III	
	KLFY	Lafayette, La.	0.5	ND	D	III	
	KNOE	Monroe, La.	5	DA-N	U	III	
	KOBK	Owatonna, Minn.	0.5	ND	D	III	
	WEOK	Poughkeepsie, N.Y.	1	ND	D	III	
	WFBL	Syracuse, N.Y.	5	DA-N	U	III	
	WEED	Rocky Mount, N.C.	1	DA-2	U	III	73
	KLPM	Minot, N.D.	5 D 1 N	ND	U	III	
	WFMJ	Youngtown, Ohio	5	DA-N	U	III	
	KCRC	Enid, Okla.	1	DA-1	U	III	
	WFNC	Fayetteville, N.C.	5 D 1 N	DA-2	U	III	73
	KSLM	Salem, Ore.	1	ND	U	III	
	WLAN	Lancaster, Pa.	1	DA-N	U	III	
	WCSC	Charleston, S.C.	5	DA-N	U	III	
	WTJS	Jackson, Tenn.	1	DA-N	U	III	
	KULP	El Campo, Tex.	0.5	ND	D	III	
	WEAM	Arlington, Va.	5	DA-1	U	III	
	WWOD	Lynchburg, Va.	1	DA-1	U	III	
1400	WJLD	Bessemer, Ala.	0.25	ND	U	IV	
	WMSL	Decatur, Ala.	0.25	ND	U	IV	
	WXAL	Demopolis, Ala.	0.25	ND	U	IV	
	WFPA	Fort Payne, Ala.	0.25	ND	U	IV	
	WGYV	Greenville, Ala.	0.25	ND	U	IV	
	WJHO	Opelika, Ala.	0.25	ND	U	IV	
	KALA	Sitka, Alsk.	0.25	ND	U	IV	
	KTUC	Tucson, Ariz.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1400 (Cont.)	KCLF	Clifton, Ariz.	0.25	ND	U	IV	
	KYMA	Yuma, Ariz.	0.25	ND	U	IV	
	KELD	El Dorado, Ark.	0.25	ND	U	IV	
	KCLA	Pine Bluff, Ark.	0.25	ND	U	IV	
	KRE	Berkeley, Calif.	0.25	ND	U	IV	
	KCRE	Crescent City, Calif.	0.25	ND	U	IV	
	KREO	Indio, Calif.	0.25	ND	U	IV	
	KCOY	S. Maria, Calif.	0.25	ND	U	IV	
	KSPA	S. Paula, Calif.	0.25	ND	U	IV	
	KUKI	Ukiah, Calif.	0.25	ND	U	IV	
	KKIN	Visalia, Calif.	0.25	ND	U	IV	
	KRLN	Canon City, Colo.	0.25	ND	U	IV	74
	KIUP	Durango, Colo.	0.25	ND	U	IV	Vide: 930 kc/s.
	KOKO	La Junta, Colo.	0.25	ND	U	IV	
	WICH	Norwich, Conn.	0.25	ND	U	IV	
	WSTC	Stamford, Conn.	0.25	ND	U	IV	
	WFTL	Fort Lauderdale, Fla.	0.25	ND	U	IV	
	WIRA	Fort Pierce, Fla.	0.25	ND	U	IV	
	WRHC	Jacksonville, Fla.	0.25	ND	U	IV	
	WPCF	Panama City, Fla.	0.25	ND	U	IV	
	WTRR	Sanford, Fla.	0.25	ND	U	IV	
	WSGC	Elberton, Ga.	0.25	ND	U	IV	
	WDUN	Gainesville, Ga.	0.25	ND	U	IV	
	WNEX	Macon, Ga.	0.25	ND	U	IV	
	WMGA	Northeast of Moultrie, Ga.	0.25	ND	U	IV	
	WCOH	Newman, Ga.	0.25	ND	U	IV	
	WDAR	Savannah, Ga.	0.25	ND	U	IV	
	KIFI	Idaho Falls, Ida.	0.25	ND	U	IV	
	KRPL	Moscow, Ida.	0.25	ND	U	IV	
	KSPT	Sandpoint, Ida.	0.25	ND	U	IV	
	WDWS	Champaign, Ill.	0.25	ND	U	IV	
	WGIL	Galesburg, Ill.	0.25	ND	U	IV	
	WEOA	Evansville, Ind.	0.25	ND	U	IV	
	KCOG	Centerville, Ia.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WBAT	Marion, Ind.	0.25	ND	U	IV	75
	KVFD	Fort Dodge, Ia.	0.25	ND	U	IV	
	KTSW	Emporia, Kan.	0.25	ND	U	IV	
	KAYS	Hays, Kan.	0.25	ND	U	IV	
	WCTT	Corbin, Ky.	0.25	ND	U	IV	Vide: 680 kc/s.
	WIEL	Elizabethtown, Ky.	0.25	ND	U	IV	
	WGRC	Louisville, Ky.	0.25	ND	U	IV	Vide: 790 kc/s.
	KSYL	Alexandria, La.	0.25	ND	U	IV	
	WLCS	Baton Rouge, La.	0.25	ND	U	IV	Vide: 910 kc/s.
	KWSL	Lake Charles, La.	0.25	ND	U	IV	
	WRDO	Augusta, Me.	0.25	ND	U	IV	
	WIDE	Biddeford, Me.	0.25	ND	U	IV	
	WHOU	Houlton, Me.	0.25	ND	U	IV	
	WCBM	Baltimore, Md.	0.25	ND	U	IV	Vide: 680 kc/s.
	—	Baltimore, Md.	0.25	ND	U	IV	76
	WALE	Fall River, Mass.	0.25	ND	U	IV	
	WLLH	Lowell, Mass.	0.25	ND	U	IV	
	WHMP	Northampton, Mass.	0.25	ND	U	IV	

1400 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1400 (Cont.)	WELL	Battle Creek, Mich.	0.25	ND	U	IV	
	WJLB	Detroit, Mich.	0.25	ND	U	IV	
	WHDF	Houghton, Mich.	0.25	ND	U	IV	
	WSAM	Saginaw, Mich.	0.25	ND	U	IV	
	WTCM	Traverse City, Mich.	0.25	ND	U	IV	
	KLIZ	Brainerd, Minn.	0.25	ND	U	IV	
	KMHL	Marshall, Minn.	0.25	ND	U	IV	
	WMIN	S. Paul, Minn.	0.25	ND	U	IV	
	WHLB	Virginia, Minn.	0.25	ND	U	IV	
	WBIP	Booneville, Miss.	0.25	ND	U	IV	
	WNAG	Grenada, Miss.	0.25	ND	U	IV	
	WFOR	Hattiesburg, Miss.	0.25	ND	U	IV	
	WJQS	Jackson, Miss.	0.25	ND	U	IV	
	WMBC	Macon, Miss.	0.25	ND	U	IV	
	KFRU	Columbia, Mo.	0.25	ND	U	IV	
	KSIM	Sikeston, Mo.	0.25	ND	U	IV	
	KTTS	Springfield, Mo.	0.25	ND	U	IV	
	KXGN	Glendive, Mont.	0.25	ND	U	IV	
	KXLK	Great Falls, Mont.	0.25	ND	U	IV	
	KCOW	Alliance, Neb.	0.25	ND	U	IV	
	KOLN	Lincoln, Neb.	0.25	ND	U	IV	
	KENO	Las Vegas, Nev.	0.25	ND	U	IV	
	WTSL	Hanover, N.H.	0.25	ND	U	IV	
	WOND	Pleasantville, N.J.	0.25	ND	U	IV	
	KCHS	Hot Springs, N.M.	0.25	ND	U	IV	
	KGFL	Roswell, N.M.	0.25	ND	U	IV	
	KTRC	S. Fe, N.M.	0.25	ND	U	IV	
	KTNM	Tucumcari, N.M.	0.25	ND	U	IV	
	WABY	Albany, N.Y.	0.25	ND	U	IV	
	WBNY	Buffalo, N.Y.	0.25	ND	U	IV	
	WELM	Elmira, N.Y.	0.25	ND	U	IV	
	WSLB	Ogdensburg, N.Y.	0.25	ND	U	IV	
	WDOS	Oneonta, N.Y.	0.25	ND	U	IV	
	WGBR	Goldsboro, N.C.	0.25	ND	U	IV	
	WGBG	Greensboro, N.C.	0.25	ND	U	IV	
	WSIC	Statesville, N.C.	0.25	ND	U	IV	
	WHCC	Waynesville, N.C.	0.25	ND	U	IV	
	KNOX	Grand Forks, N.D.	0.25	ND	U	IV	
	WMAN	Mansfield, Ohio	0.25	ND	U	IV	
	WPAY	Portsmouth, Ohio	0.25	ND	U	IV	
	KWON	Bartlesville, Okla.	0.25	ND	U	IV	
	KTMC	McAlester, Okla.	0.25	ND	U	IV	
	KNOR	Norman, Okla.	0.25	ND	U	IV	
	KWIN	Ashland, Ore.	0.25	ND	U	IV	
	WEST	Easton, Pa.	0.25	ND	U	IV	
	WHGB	Harrisburg, Pa.	0.25	ND	U	IV	
	WHUN	Huntingdon, Pa.	0.25	ND	U	IV	
	WJAC	Johnstown, Pa.	0.25	ND	U	IV	
	WDAS	Philadelphia, Pa.	0.25	ND	U	IV	
	WARM	Scranton, Pa.	0.25	ND	U	IV	Vide: 590 kc/s.
	WKBI	S. Marys, Pa.	0.25	ND	U	IV	
	WRAK	Williamsport, Pa.	0.25	ND	U	IV	
	WAEL	Mayaguez, P.R.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1400	WITA	S. Juan, P.R.	0.25	ND	U	IV	
(Cont.)	WBSC	Bennettsville, S.C.	0.25	ND	U	IV	Vide: 1550 kc/s.
	WCOS	Columbia, S.C.	0.25	ND	U	IV	
	WGTN	Georgetown, S.C.	0.25	ND	U	IV	
	WORD	Spartanburg, S.C.	0.25	ND	U	IV	
	WJZM	Clarksville, Tenn.	0.25	ND	U	IV	
	WHUB	Cookeville, Tenn.	0.25	ND	U	IV	
	WKPT	Kingsport, Tenn.	0.25	ND	U	IV	
	WGAP	Maryville, Tenn.	0.25	ND	U	IV	
	WHAL	Shelbyville, Tenn.	0.25	ND	U	IV	
	KRUN	Ballinger, Tex.	0.25	ND	U	IV	
	KTXC	Big Spring, Tex.	0.25	ND	U	IV	PO: 0.1 kW, U.
	KUNO	Corpus Christi, Tex.	0.25	ND	U	IV	PO: 0.1 kW, U.
	KLUF	Near Galveston, Tex.	0.25	ND	U	IV	
	KGVL	Greenville, Tex.	0.25	ND	U	IV	
	KEBE	Jacksonville, Tex.	0.25	ND	U	IV	
	KIUN	Pecos, Tex.	0.25	ND	U	IV	
	KEYE	Perryton, Tex.	0.25	ND	U	IV	
	KVOP	Plainview, Tex.	0.25	ND	U	IV	
	KDWT	Stamford, Tex.	0.25	ND	U	IV	
	KTEM	Temple, Tex.	0.25	ND	U	IV	
	KTFS	Texarkana, Tex.	0.25	ND	U	IV	
	KCSU	Provo, Utah	0.25	ND	U	IV	
	WBOB	Galax, Va.	0.25	ND	U	IV	
	WLOW	Portsmouth, Va.	0.25	ND	U	IV	
	WHLF	South Boston, Va.	0.25	ND	U	IV	
	WTON	Staunton, Va.	0.25	ND	U	IV	
	WINC	Winchester, Va.	0.25	ND	U	IV	
	KRKO	Everett, Wash.	0.25	ND	U	IV	Vide: 1380 kc/s.
	KFDR	Grand Coulee, Wash.	0.25	ND	U	IV	
	KWLK	Longview, Wash.	0.25	ND	U	IV	
	KYAK	Yakima, Wash.	0.25	ND	U	IV	
	WCAW	Charleston, W.Va.	0.25	ND	U	IV	
	WBLK	Clarksburg, W.Va.	0.25	ND	U	IV	
	WRON	Ronceverte, W.Va.	0.25	ND	U	IV	
	WKWK	Wheeling, W.Va.	0.25	ND	U	IV	
	WBTH	Williamson, W.Va.	0.25	ND	U	IV	
	WATW	Ashland, Wis.	0.25	ND	U	IV	
	WBIZ	Eau Claire, Wis.	0.25	ND	U	IV	
	WDUZ	Green Bay, Wis.	0.25	ND	U	IV	
	WRJN	Racine, Wis.	0.25	ND	U	IV	
	WSAU	Wausau, Wis.	0.25	ND	U	IV	
	KODI	Cody, Wyo.	0.25	ND	U	IV	
1410	WALA	Mobile, Ala.	5	DA-N	U	III	
	KERN	Bakersfield, Calif.	1	ND	U	III	
	KCOL	Fort Collins, Colo.	1	DA-N	U	III	
	WONS	Hartford, Conn.	5	DA-2	U	III	
	WDOV	Dover, Del.	1	ND	D	III	
	WLAQ	Rome, Ga.	1	DA-N	U	III	77
	WRMN	Elgin, Ill.	0.5	ND	D	III	
	WTIM	Taylorville, Ill.	1	DA-D	D	III	
	KCLO	Leavenworth, Kan.	0.5	ND	D	III	
	KWBB	Wichita, Kan.	1	DA-2	U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1410	WLBJ	Bowling Green, Ky.	1	DA-N	U	III	11
(Cont.)	WGRD	Grand Rapids, Mich.	1	ND	D	III	
	WFCB	Dunkirk, N.Y.	0.5	DA-2	U	III	
	WWSC	Glens Falls, N.Y.	1 D 0.5 N	DA-N	U	III	78
	WEGO	Concord, N.C.	1	ND	D	III	
	WING	Dayton, Ohio	5	DA-N	U	III	
	KQV	Pittsburgh, Pa.	5	DA-2	U	III	
	KBUD	Athens, Tex.	0.25	ND	D	IV	
	KXIT	Dalhart, Tex.	0.5	ND	D	III	
	KRIG	Odessa, Tex.	1	DA-N	U	III	
	KNAL	Victoria, Tex.	0.5	DA-N	U	III	PO: 0.5 kW, D.
	WKBH	La Crosse, Wis.	5	DA-N	U	III	
	KWYO	Sheridan, Wyo.	1 D 0.5 N	ND	U	III	
1420	KPOC	Pocahontas, Ark.	1	ND	D	III	
	KSTN	Stockton, Calif.	1	DA-1	U	III	
	WRBL	Columbus, Ga.	5	DA-N	U	III	
	WLET	Toccoa, Ga.	1	ND	D	III	78
	WIMS	Michigan City, Ind.	1 D 0.5 N	DA-N	U	III	PO: 1 kW, D.
	WOC	Davenport, Ia.	5	DA-2	U	III	
	KJCK	Junction City, Kan.	1	ND	D	III	
	WVJS	Owensboro, Ky.	1	DA-2	U	III	
	KTOE	Mankato, Minn.	1	DA-N	U	III	
	WQBC	Vicksburg , Miss.	1 D 0.5 N	ND	U	III	
	WLNA	Peekskill, N.Y.	0.5	ND	D	III	
	WVOT	Wilson, N.C.	1 D 0.5 N	DA-N	U	III	
	WHK	Cleveland, Ohio	5	DA-N	U	III	
	KTJS	Hobart, Okla.	0.25	ND	D	IV	
	WCOJ	Coatesville,Pa.	1	ND	D	III	
	WPCI	Providence, R.I.	5	DA-1	U	III	
	KFYN	Bonham, Tex.	0.25	ND	D	IV	
	KTRE	Lufkin, Tex.	1	DA-N	U	III	
	KGNB	New Braunfels, Tex.	1	ND	D	III	
	WWSR	S. Albans, Vt.	1	ND	D	III	
	KUJ	Walla Walla, Wash.	5	DA-N	U	III	
1430	KARM	Fresno, Calif.	5	DA-1	U	III	
	KALI	Pasadena, Calif.	1	DA-D	D	III	
	WLAK	Lakeland, Fla.	1	ND	U	III	
	WIRE	Indianapolis, Ind.	5	DA-N	U	III	
	KASI	Ames, Ia.	1	ND	D	III	
	WNAV	Annapolis, Md.	0.5	DA-N	U	III	
	WIL	S. Louis, Mo.	5	DA-2	U	III	
	WNJR	Newark, N.J.	5	DA-N	U	III	
	WENE	Endicott, N.Y.	5	DA-1	U	III	78
	WRXO	Roxboro, N.C.	1	ND	D	III	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1430 (Cont.)	WCLT	Newark, Ohio	0.5	ND	D	III	
	KTUL	Tulsa, Okla.	5	DA-N	U	III	
	WVAM	Altoona, Pa.	1	DA-2	U	III	
	WDBL	Springfield, Tenn.	1	ND	D	III	
	KSTB	Breckenridge, Tex.	1	ND	D	III	
	KSIJ	Gladewater, Tex.	1	ND	D	III	
	KCOH	Houston, Tex.	1	ND	D	III	
	KLO	Ogden, Utah	5	DA-1	U	III	
	KBRC	Mount Vernon, Wash.	0.5	DA-N	U	III	
	WEIR	Weirton, W.Va.	1	DA-2	U	III	
	WBEV	Beaver Dam, Wis.	1	ND	D	III	
1440	WSFA	Montgomery, Ala.	1	DA-N	U	III	
	KVON	Napa, Calif.	0.5	DA-1	U	III	
	KPRO	Riverside, Calif.	1	ND	U	III	
	WBIS	Bristol, Conn.	0.5	ND	D	III	
	WGIG	Brunswick, Ga.	1	DA-N	U	III	
	KEIO	Pocatello, Ida.	1	DA-1	U	III	
	WGEM	Quincy, Ill.	1	DA-2	U	III	
	WROK	Rockford, Ill.	1 D 0.5 N	ND	U	III	
	WPGW	Portland, Ind.	0.5	DA-D	D	III	
	KJAY	Topeka, Kan.	5 D 1 N	DA-1	U	III	
	KMLB	Monroe, La.	5 D 1 N	DA-N	U	III	
	WAAB	Worcester, Mass.	5	DA-1	U	III	
	WBCM	Bay City, Mich.	1 D 0.5 N	ND	U	III	
	—	Hamtramck, Mich.	0.5	ND	D	III	
	KEYD	Minneapolis, Minn.	5	ND	D	III	
	WJJL	Niagara Falls, N.Y.	1	ND	D	III	
	KFJM	Grand Forks, N.D.	1 D 0.5 N	ND	S-KILO S.H.	III	
	KILO	Grand Forks, N.D.	1 D 0.5 N	ND	S-KFJM S.H.	III	
	WHHH	Warren, Ohio	5	DA-2	U	III	
	KMED	Medford, Ore.	5 D 1 N	ND	U	III	
	WGCB	Red Lion, Pa.	1	ND	D	III	
	WMRC	Greenville, S.C.	5	DA-2	U	III	
	KFDA	Amarillo, Tex.	5 D 1 N	DA-N	U	III	
	KEYS	Corpus Christi, Tex.	1 D 0.5 N	DA-N	U	III	
	WHIS	Bluefield, W.Va.	5	DA-N	U	III	
	WJPG	Green Bay, Wis.	1 D 0.5 N	DA-2	U	III	79
1450	WHMA	Anniston, Ala.	0.25	ND	U	IV	
	WBCO	Bessemer, Ala.	0.25	ND	U	IV	
	WDIG	Dothan, Ala.	0.25	ND	U	IV	
	WFUN	Huntsville, Ala.	0.25	ND	U	IV	

1450 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1450 (Cont.)	WLAY	Muscle Shoals, Ala.	0.25	ND	U	IV	
	KAWT	Douglas, Ariz.	0.25	ND	U	IV	
	KGPH	Flagstaff, Ariz.	0.25	ND	U	IV	
	KOPO	Tucson, Ariz.	0.25	ND	U	IV	
	KAMD	Camden, Ark.	0.25	ND	U	IV	
	KGRH	Fayetteville, Ark.	0.25	ND	U	IV	
	KENA	Mena, Ark.	0.25	ND	U	IV	
	KXLR	North Little Rock, Ark.	0.25	ND	U	IV	
	KYOR	Blythe, Calif.	0.25	ND	U	IV	
	KUK	Escondido, Calif.	0.25	ND	U	IV	
	—	Inglewood, Calif.	0.25	ND	U	IV	
	KMYC	Marysville, Calif.	0.25	ND	U	IV	
	KTIP	Porterville, Calif.	0.25	ND	U	IV	
	KSAN	S. Francisco, Calif.	0.25	ND	U	IV	
	KROG	Sonora, Calif.	0.25	ND	U	IV	
	KVEN	Ventura, Calif.	0.25	ND	U	IV	
	KGIW	Alamosa, Colo.	0.25	ND	U	IV	
	KYOU	Greeley, Colo.	0.25	ND	U	IV	
	KPHC	Walsenburg, Colo.	0.25	ND	U	IV	
	WNAB	Bridgeport, Conn.	0.25	ND	U	IV	
	WILM	Wilmington, Del.	0.25	ND	U	IV	
	WOL	Washington, D.C.	0.25	ND	U	IV	
	WMFJ	Daytona Beach, Fla.	0.25	ND	U	IV	
	WNER	Live Oak, Fla.	0.25	ND	U	IV	
	WWPB	Miami, Fla.	0.25	ND	U	IV	
	WBSR	Pensacola, Fla.	0.25	ND	U	IV	
	WSPB	Sarasota, Fla.	0.25	ND	U	IV	
	WTNT	Tallahassee, Fla.	0.25	ND	U	IV	
	WGPC	Albany, Ga.	0.25	ND	U	IV	
	WBHF	Cartersville, Ga.	0.25	ND	U	IV	
	WKEU	Griffin, Ga.	0.25	ND	U	IV	
	WMVG	Milledgeville, Ga.	0.25	ND	U	IV	
	WCCP	Savannah, Ga.	0.25	ND	U	IV	
	WLET	Toccoa, Ga.	0.25	ND	U	IV	Vide: 1420 kc/s.
	WVOP	Vidalia, Ga.	0.25	ND	U	IV	
	KVMV	Twin Falls, Ida.	0.25	ND	U	IV	
	WHFC	Cicero, Ill.	0.25	ND	U	IV	
	WCVS	Springfield, Ill.	0.25	ND	U	IV	
	WANE	Fort Wayne, Ind.	0.25	ND	U	IV	
	WASK	Lafayette, Ind.	0.25	ND	U	IV	
	WAOV	Vincennes, Ind.	0.25	ND	U	IV	
	KWCR	Cedar Rapids, Ia.	0.25	ND	U	IV	
	KWBW	Hutchinson, Kan.	0.25	ND	U	IV	
	WLCK	Campbellsville, Ky.	0.25	ND	U	IV	
	WLAP	Lexington, Ky.	0.25	ND	U	IV	Vide: 630 kc/s.
	WPAD	Paducah, Ky.	0.25	ND	U	IV	
	KSIG	Crowley, La.	0.25	ND	U	IV	
	KWCJ	Natchitoches, La.	0.25	ND	U	IV	
	WJMR	New Orleans, La.	0.25	ND	U	IV	80
	WGUY	Bangor, Me.	0.25	ND	U	IV	Vide: 1230 kc/s.
	WPOR	Portland, Me.	0.25	ND	U	IV	
	WAGM	Presque Isle, Me.	0.25	ND	U	IV	
	WTBO	Cumberland, Md.	0.25	ND	U	IV	

1450 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1450 (Cont.)	WMAS	Springfield, Mass.	0.25	ND	U	IV	
	WATZ	Alpena, Mich.	0.25	ND	U	IV	
	WHTC	Holland, Mich.	0.25	ND	U	IV	
	WMIQ	Iron Mountain, Mich.	0.25	ND	U	IV	
	WIBM	Jackson, Mich.	0.25	ND	U	IV	
	WKLA	Ludington, Mich.	0.25	ND	U	IV	
	WHLS	Port Huron, Mich.	0.25	ND	U	IV	
	KATE	Albert Lea, Minn.	0.25	ND	U	IV	
	KBUN	Bemidji, Minn.	0.25	ND	U	IV	
	KBMW	Breckenridge, Minn.	0.25	ND	U	IV	
	WXLT	Ely, Minn.	0.25	ND	U	IV	
	KFAM	S. Cloud, Minn.	0.25	ND	U	IV	
	WROX	Clarksdale, Miss.	0.25	ND	U	IV	
	WCJU	Columbia, Miss.	0.25	ND	U	IV	
	WJXN	Jackson, Miss.	0.25	ND	U	IV	
	WTOK	Meridian, Miss.	0.25	ND	U	IV	
	WNAT	Natchez, Miss.	0.25	ND	U	IV	
	WROB	West Point, Miss.	0.25	ND	U	IV	
	WMBH	Joplin, Mo.	0.25	ND	U	IV	
	KIRX	Kirksville, Mo.	0.25	ND	U	IV	
	KSGM	S. Genevieve, Mo.	0.25	ND	U	IV	Vide: 980 kc/s.
	KWPM	West Plains, Mo.	0.25	ND	U	IV	
	KXLQ	Bozeman, Mont.	0.25	ND	U	IV	
	KXLL	Missoula, Mont.	0.25	ND	U	IV	
	KWBE	Beatrice, Neb.	0.25	ND	U	IV	
	KBRL	McCook, Neb.	0.25	ND	U	IV	
	WKXL	Concord, N.H.	0.25	ND	U	IV	
	WFPG	Atlantic City, N.J.	0.25	ND	U	IV	
	WCTC	New Brunswick, N.J.	0.25	ND	U	IV	
	KOAT	Albuquerque, N.M.	0.25	ND	U	IV	
	KSVP	Artesia, N.M.	0.25	ND	U	IV	
	KLMX	Clayton, N.M.	0.25	ND	U	IV	
	KOBE	Las Cruces, N.M.	0.25	ND	U	IV	
	KENM	Portales, N.M.	0.25	ND	U	IV	
	WHDL	Allegany, N.Y.	0.25	ND	U	IV	
	WENE	Endicott, N.Y.	0.25	ND	U	IV	Vide: 1430 kc/s.
	WWSC	Glens Falls, N.Y.	0.25	ND	U	IV	Vide: 1410 kc/s.
	WKIP	Poughkeepsie, N.Y.	0.25	ND	U	IV	
	WKAL	Rome, N.Y.	0.25	ND	U	IV	
	WNBZ	Saranac Lake, N.Y.	0.25	ND	U	IV	
	WATA	Boone, N.C.	0.25	ND	U	IV	
	WFNC	Fayetteville, N.C.	0.25	ND	U	IV	Vide: 1390 kc/s.
	WGNC	Gastonia, N.C.	0.25	ND	U	IV	
	WHKP	Hendersonville, N.C.	0.25	ND	U	IV	
	WBUY	Lexington, N.C.	0.25	ND	U	IV	
	WHIT	New Bern, N.C.	0.25	ND	U	IV	
	WEED	Rocky Mount, N.C.	0.25	ND	U	IV	Vide: 1390 kc/s.
	KWBM	Williston, N.D.	0.25	ND	U	IV	
	WJER	Dover, Ohio	0.25	ND	U	IV	
	WMOH	Hamilton, Ohio	0.25	ND	U	IV	
	WLEC	Sandusky, Ohio	0.25	ND	U	IV	
	KWHW	Altus, Okla.	0.25	ND	U	IV	
	KGFF	Shawnee, Okla.	0.25	ND	U	IV	
	KSIW	Woodward, Okla.	0.25	ND	U	IV	

1450 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1450 (Cont.)	KWRO	Coquille, Ore.	0.25	ND	U	IV	
	KORE	Eugene, Ore.	0.25	ND	U	IV	
	KFLW	Klamath Falls. Ore.	0.25	ND	U	IV	Vide: 1240 kc/s.
	KLBM	La Grande, Ore.	0.25	ND	U	IV	
	KSRV	Ontario, Ore.	0.25	ND	U	IV	
	KBPS	Portland, Ore.	0.25	ND	U	IV	58
	WLEU	Erie, Pa.	0.25	ND	U	IV	
	WGET	Gettysburg, Pa.	0.25	ND	U	IV	
	WDAD	Indiana, Pa.	0.25	ND	U	IV	
	WPAM	Pottsville, Pa.	0.25	ND	U	IV	
	WMAJ	State College, Pa.	0.25	ND	U	IV	
	WJPA	Washington, Pa.	0.25	ND	U	IV	
	WILK	Wilkes-Barre, Pa.	0.25	ND	U	IV	Vide: 980 kc/s.
	WRIA	Caguas, P.R.	0.25	ND	U	IV	
	WUSN	Charleston, S.C.	0.25	ND	U	IV	
	WCRS	Greenwood, S.C.	0.25	ND	U	IV	
	WHSC	Hartsville, S.C.	0.25	ND	U	IV	
	WMRA	Myrtle Beach, S.C.	0.25	ND	U	IV	
	WRNO	Orangeburg, S.C.	0.25	ND	U	IV	
	KDSJ	Deadwood, S.D.	0.25	ND	U	IV	
	WLAR	Athens, Tenn.	0.25	ND	U	IV	
	WAGC	Chattanooga, Tenn.	0.25	ND	U	IV	
	WDSG	Dyersburg, Tenn.	0.25	ND	U	IV	
	WCRK	Morristown, Tenn.	0.25	ND	U	IV	
	WGNS	Murfreesboro, Tenn.	0.25	ND	U	IV	
	KRIC	Beaumont, Tex.	0.25	ND	U	IV	
	KDNT	Denton, Tex.	0.25	ND	U	IV	
	KCTI	Gonzales, Tex.	0.25	ND	U	IV	
	KMBL	Junction, Tex.	0.25	ND	U	IV	
	KHIT	Lampasas, Tex.	0.25	ND	U	IV	
	KMHT	Marshall, Tex.	0.25	ND	U	IV	
	KNET	Palestine, Tex.	0.25	ND	U	IV	
	KVOU	Uvalde, Tex.	0.25	ND	U	IV	
	KNEU	Provo, Utah	0.25	ND	U	IV	Vide: 1400 kc/s.
	WTSA	Brattleboro, Vt.	0.25	ND	U	IV	
	WFTR	Front Royal, Va.	0.25	ND	U	IV	
	WREL	Lexington, Va.	0.25	ND	U	IV	
	WMVA	Martinsville, Va.	0.25	ND	U	IV	
	WNVA	Norton, Va.	0.25	ND	U	IV	
	WLPM	Suffolk, Va.	0.25	ND	U	IV	
	KBKW	Aberdeen, Wash.	0.25	ND	U	IV	
	KCLX	Colfax, Wash.	0.25	ND	U	IV	
	KSEM	Moses Lake, Wash.	0.25	ND	U	IV	
	KONP	Port Angeles, Wash.	0.25	ND	U	IV	
	WWNR	Beckley, W.Va.	0.25	ND	U	IV	Vide: 620 kc/s.
	WPLH	Huntington, W.Va.	0.25	ND	U	IV	
	WPAR	Parkersburg, W.Va.	0.25	ND	U	IV	
	WHAW	Weston, W.Va.	0.25	ND	U	IV	
	KFIZ	Fond du Lac, Wis.	0.25	ND	U	IV	
	WDLB	Marshfield, Wis.	0.25	ND	U	IV	
	WRCO	Richland Center, Wis.	0.25	ND	U	IV	
	KWRL	Riverton, Wyo.	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1460	KINY	Juneau, Alsk.	5	ND	U	III	
	KDON	S. Cruz, Calif.	5	DA-1	U	III	
	WMBR	Jacksonville, Fla.	5	DA-N	U	III	
	WGBA	Columbus, Ga.	1	DA-1	U	III	
	WROY	Carmi, Ill.	1	ND	D	III	
	KSO	Des Moines, Ia.	5	DA-N	U	III	
	KCHN	Chanute, Kan.	1	ND	D	III	
	WAFB	Baton Rouge, La.	5 D 1 N	DA-N	U	III	
	—	Sturgis, Mich.	0.5	ND	D	III	
	KENO	Las Vegas, Nev.	1	DA-N	U	III	16
	WOKO	Albany, N.Y.	5	DA-N	U	III	26
	WGNR	New Rochelle, N.Y.	0.5	ND	D	III	
	WHEC	Rochester, N.Y.	5	DA-N	U	III	
	WFVG	Fuquay Springs, N.C.	1	ND	D	III	
	WBNS	Columbus, Ohio	5 D 1 N	DA-N	U	III	
	KNED	McAlester, Okla.	1	ND	D	III	
	WHP	Harrisburg, Pa.	5 D 1 N	DA-N	U	III	Vide: 580 kc/s.
	WBCU	Union, S.C.	1	DA-N	U	III	
	WACO	Waco, Tex.	1	DA-N	U	III	
	KIMA	Yakima, Wash.	1 D 0.5 N	ND	U	III	
	WRAC	Racine, Wis.	0.5	ND	D	III	
1470	KBMX	Coalinga, Calif.	0.5	ND	D	III	
	KXOA	Sacramento, Calif.	1	DA-1	U	III	
	WMMW	Meriden, Conn.	1	ND	D	III	
	WRGA	Rome, Ga.	5	DA-N	U	III	
	WMBD	Peoria, Ill.	5	DA-2	U	III	41
	WCBC	Anderson, Ind.	1	ND	D	III	
	KTRI	Sioux City, Ia.	5	DA-2	U	III	
	KARE	Atchison, Kan.	1	DA-1	U	III	
	KPLC	Lake Charles, La.	5 D 1 N	DA-N	U	III	
	WLAM	Lewiston, Me.	5	DA-1	U	III	
	WJOC	Jamestown, N.Y.	1	ND	D	III	Vide: 1340 kc/s.
	WBIG	Greensboro, N.C.	5	DA-N	U	III	
	KVLH	Pauls Valley, Okla.	0.25	ND	D	IV	
	WSAN	Allentown, Pa.	5	DA-N	U	III	
	WATS	Sayre, Pa.	1	ND	D	III	
	KRBC	Abilene, Tex.	5 D 1 N	DA-N	U	III	
	KCNY	S. Marcos, Tex.	0.25	ND	D	IV	
	KELA	Centralia, Wash.	1	ND	U	III	
	WMOD	Moundsville, W.Va.	1	ND	D	III	
	WBKV	West Bend, Wis.	0.5	ND	D	III	
	KSPR	Casper, Wyo.	1	ND	U	III	
1480	WABB	Mobile, Ala.	5	DA-N	U	III	
	KGLU	Safford, Ariz.	1	ND	U	III	

1480 - 1490 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1480 (Cont.)	KIEM	Eureka, Calif.	5	DA-1	U	III	38, 93
	KYOS	Merced, Calif.	5	DA-N	U	III	
	KVOE	S. Ana, Calif.	1	DA-1	U	III	
	WRDW	Augusta, Ga.	5	DA-N	U	III	
	WTHI	Terre Haute, Ind.	1	DA-2	U	III	
	New	Warsaw, Ind.	0.5	DA-2	U	III	
	KANS	Wichita, Kan.	5 D 1 N	DA-2	U	III	
	WSAR	Fall River, Mass.	5	DA-2	U	III	70
	KAUS	Austin, Minn.	1	DA-2	U	III	
	KGCX	Sidney, Mont.	5	DA-1	U	III	
	KLMS	Lincoln, Neb.	1	DA-2	U	III	
	WHOM	Jersey City, N.J.	5	DA-2	U	III	
	WHBC	Canton, Ohio	5	DA-N	U	III	
	WISL	Shamokin, Pa.	1	DA-N	U	III	
	KLVL	Pasadena, Tex.	1	ND	D	III	
	WBBL	Richmond, Va.	5	DA-2	S-WLEE	III	
	WLEE	Richmond, Va.	5	DA-2	S-WBBL	III	
	WISC	Madison, Wis.	1	DA-1	U	III	
1490	WTNB	Birmingham, Ala.	0.25	ND	U	IV	Vide: 850 kc/s.
	WHBS	Huntsville, Ala.	0.25	ND	U	IV	
	WRLD	Lanett, Ala.	0.25	ND	U	IV	
	WHBB	Selma, Ala.	0.25	ND	U	IV	
	WTBF	Troy, Ala.	0.25	ND	U	IV	
	KTYL	Mesa, Ariz.	0.25	ND	U	IV	Vide: 1310 kc/s.
	KYCA	Prescott, Ariz.	0.25	ND	U	IV	
	KTKT	Tucson, Ariz.	0.25	ND	U	IV	
	KXAR	Hope, Ark.	0.25	ND	U	IV	
	KDRS	Paragould, Ark.	0.25	ND	U	IV	
	KOTN	Pine Bluff, Ark.	0.25	ND	U	IV	
	KXRJ	Russellville, Ark.	0.25	ND	U	IV	
	KDIA	Auburn, Calif.	0.25	ND	U	IV	
	KPAS	Banning, Calif.	0.25	ND	U	IV	
	KWIK	Burbank, Calif.	0.25	ND	U	IV	
	KICO	Calexico, Calif.	0.25	ND	U	IV	
	KAFP	Petaluma, Calif.	0.25	ND	U	IV	
	KBLF	Red Bluff, Calif.	0.25	ND	U	IV	
	KDB	S. Barbara, Calif.	0.25	ND	U	IV	
	KSYC	Yreka, Calif.	0.25	ND	U	IV	
	KBOL	Boulder, Colo.	0.25	ND	U	IV	
	WNLC	New London, Conn.	0.25	ND	U	IV	
	WTOR	Torrington, Conn.	0.25	ND	U	IV	
	WDHL	Bradenton, Fla.	0.25	ND	U	IV	
	WTTT	Coral Gables, Fla.	0.25	ND	U	IV	
	WJBS	DeLand, Fla.	0.25	ND	U	IV	
	WEAT	Lake Worth, Fla.	0.25	ND	U	IV	
	WSIR	Winter Haven, Fla.	0.25	ND	U	IV	
	WMGR	Bainbridge, Ga.	0.25	ND	U	IV	
	WMOG	Brunswick, Ga.	0.25	ND	U	IV	
	WMJM	Cordele, Ga.	0.25	ND	U	IV	
	WMOC	Covington, Ga.	0.25	ND	U	IV	
	WKMA	Quitman, Ga.	0.25	ND	U	IV	

1490 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1490 (Cont.)	WWNS	Statesboro, Ga.	0.25	ND	U	IV	
	KBLI	Blackfoot, Ida.	0.25	ND	U	IV	
	KCID	Caldwell, Ida.	0.25	ND	U	IV	
	WKRO	Cairo, Ill.	0.25	ND	U	IV	
	WDAN	Danville, Ill.	0.25	ND	U	IV	
	WTMV	East S. Louis, Ill.	0.25	ND	U	IV	
	WOPA	Oak Park, Ill.	0.25	ND	U	IV	
	WTOM	Bloomington, Ind.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WKBV	Richmond, Ind.	0.25	ND	U	IV	
	WHOT	South Bend, Ind.	0.25	ND	U	IV	
	KBUR	Burlington, Ia.	0.25	ND	U	IV	
	WKBB	Dubuque, Ia.	0.25	ND	U	IV	
	KRIB	Mason City, Ia.	0.25	ND	U	IV	
	KTOP	Topeka, Kan.	0.25	ND	U	IV	
	WFKY	Frankfort, Ky.	0.25	ND	U	IV	
	WKAY	Glasgow, Ky.	0.25	ND	U	IV	
	WOMI	Owensboro, Ky.	0.25	ND	U	IV	
	WSIP	Paintsville, Ky.	0.25	ND	U	IV	
	WIKC	Bogalusa, La.	0.25	ND	U	IV	
	KCIL	Houma, La.	0.25	ND	U	IV	
	KRUS	Ruston, La.	0.25	ND	U	IV	
	WMTW	Portland, Me.	0.25	ND	U	IV	
	WTVL	Waterville, Me.	0.25	ND	U	IV	
	WCUM	Cumberland, Md.	0.25	ND	U	IV	
	WARK	Hagerstown, Md.	0.25	ND	U	IV	
	WHOB	Gardner, Mass.	0.25	ND	U	IV	
	WHAV	Haverhill, Mass.	0.25	ND	U	IV	
	WBEC	Pittsfield, Mass.	0.25	ND	U	IV	
	WTXL	West Springfield, Mass.	0.25	ND	U	IV	
	WJBK	Detroit, Mich.	0.25	ND	U	IV	
	WGHN	Grand Haven, Mich.	0.25	ND	U	IV	
	WMDN	Midland, Mich.	0.25	ND	U	IV	
	KXRA	Alexandria, Minn.	0.25	ND	U	IV	
	KBZY	Grand Rapids, Minn.	0.25	ND	U	IV	
	WLOX	Biloxi, Miss.	0.25	ND	U	IV	
	WCLD	Cleveland, Miss.	0.25	ND	U	IV	
	WLAU	Laurel, Miss.	0.25	ND	U	IV	
	WHOC	Philadelphia, Miss.	0.25	ND	U	IV	
	WELO	Tupelo, Miss.	0.25	ND	U	IV	
	WVIM	Vicksburg, Miss.	0.25	ND	U	IV	
	KDMO	Carthage, Mo.	0.25	ND	U	IV	
	KTTR	Rolla, Mo.	0.25	ND	U	IV	
	KDRO	Sedalia, Mo.	0.25	ND	U	IV	
	KBOW	Butte, Mont.	0.25	ND	U	IV	
	KCNI	Broken Bow, Neb.	0.25	ND	U	IV	
	KBON	Omaha, Neb.	0.25	ND	U	IV	
	KWRN	Reno, Nev.	0.25	ND	U	IV	
	WBAB	Atlantic City, N.J.	0.25	ND	U	IV	
	KWEW	Hobbs, N.M.	0.25	ND	U	IV	
	KRSN	Los Alamos, N.M.	0.25	ND	U	IV	
	KRTN	Raton, N.M.	0.25	ND	U	IV	
	WCSS	Amsterdam, N.Y.	0.25	ND	U	IV	
	WBTA	Batavia, N.Y.	0.25	ND	U	IV	

1490 kc/s U.S.A.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1490 (Cont.)	WINR	Binghampton, N.Y.	0.25	ND	U	IV	
	WKNY	Kingston, N.Y.	0.25	ND	U	IV	
	WICY	Malone, N.Y.	0.25	ND	U	IV	
	WOLF	Syracuse, N.Y.	0.25	ND	U	IV	
	WSKY	Asheville, N.C.	0.25	ND	U	IV	
	WSSB	Durham, N.C.	0.25	ND	U	IV	
	WFLB	Fayetteville, N.C.	0.25	ND	U	IV	
	WGTC	Greenville, N.C.	0.25	ND	U	IV	Vide: 1590 kc/s.
	WLOE	Leaksville, N.C.	0.25	ND	U	IV	
	WMNC	Morganton, N.C.	0.25	ND	U	IV	
	WSTP	Salisbury, N.C.	0.25	ND	U	IV	
	KOVC	Valley City, N.D.	0.25	ND	U	IV	
	WBEX	Chillicothe, Ohio	0.25	ND	U	IV	
	WSRS	Cleveland Heights, Ohio	0.25	ND	U	IV	
	WOHI	East Liverpool, Ohio	0.25	ND	U	IV	
	WMOA	Marietta, Ohio	0.25	ND	U	IV	
	WMRN	Marion, Ohio	0.25	ND	U	IV	
	KBIG	Guthrie, Okla.	0.25	ND	U	IV	
	KBIX	Muskogee, Okla.	0.25	ND	U	IV	
	KBKR	Baker, Ore.	0.25	ND	U	IV	
	KRNR	Roseburg, Ore.	0.25	ND	U	IV	
	KOCO	Salem, Ore.	0.25	ND	U	IV	
	WESB	Bradford, Pa.	0.25	ND	U	IV	
	WAZL	Hazleton, Pa.	0.25	ND	U	IV	
	WARD	Johnstown, Pa.	0.25	ND	U	IV	
	WGAL	Lancaster, Pa.	0.25	ND	U	IV	
	WMRF	Lewistown, Pa.	0.25	ND	U	IV	
	WMGW	Meadville, Pa.	0.25	ND	U	IV	
	WBUD	Morrisville, Pa.	0.25	ND	U	IV	
	WMDD	Fajardo, P.R.	0.25	ND	U	IV	
	WGCD	Chester, S.C.	0.25	ND	U	IV	
	WLAT	Conway, S.C.	0.25	ND	U	IV	
	WAKE	Greenville, S.C.	0.25	ND	U	IV	
	WALD	Waterboro, S.C.	0.25	ND	U	IV	
	KORN	Mitchell, S.D.	0.25	ND	U	IV	
	WOPI	Bristol, Tenn.	0.25	ND	U	IV	
	WDXB	Chattanooga, Tenn.	0.25	ND	U	IV	
	WPLI	Jackson, Tenn.	0.25	ND	U	IV	
	WJJM	Lewisburg, Tenn.	0.25	ND	U	IV	
	WATO	Oak Ridge, Tenn.	0.25	ND	U	IV	
	KNOW	Austin, Tex.	0.25	ND	U	IV	
	KIBL	Beeville, Tex.	0.25	ND	U	IV	
	KBST	Big Spring, Tex.	0.25	ND	U	IV	
	KHUZ	Borger, Tex.	0.25	ND	U	IV	
	KNEL	Brady, Tex.	0.25	ND	U	IV	
	KVAL	Brownsville, Tex.	0.25	ND	U	IV	
	KSAM	Huntsville, Tex.	0.25	ND	U	IV	
	KPAB	Laredo, Tex.	0.25	ND	U	IV	
	KVOW	Littlefield, Tex.	0.25	ND	U	IV	
	KPLT	Paris, Tex.	0.25	ND	U	IV	
	KGKB	Tyler, Tex.	0.25	ND	U	IV	
	KVWC	Vernon, Tex.	0.25	ND	U	IV	
	KVOG	Ogden, Utah	0.25	ND	U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1490 (Cont.)	WBLT	Bedford, Va.	0.25	ND	U	IV	
	WKLV	Blackstone, Va.	0.25	ND	U	IV	
	WCVA	Culpeper, Va.	0.25	ND	U	IV	
	WVEC	Hampton, Va.	0.25	ND	U	IV	81
	WSAP	Portsmouth, Va.	0.25	ND	U	IV	Vide: 1350 kc/s.
	WAYB	Waynesboro, Va.	0.25	ND	U	IV	
	KBRO	Bremerton, Wash.	0.25	ND	U	IV	
	KELS	Kelso, Wash.	0.25	ND	U	IV	
	KWWB	Walla Walla, Wash.	0.25	ND	U	IV	
	WGKV	Charleston, W.Va.	0.25	ND	U	IV	
	WVVW	Fairmont, W.Va.	0.25	ND	U	IV	
	WLOH	Princeton, W.Va.	0.25	ND	U	IV	
	WGEZ	Beloit, Wis.	0.25	ND	U	IV	PO: 0.1 kW, U.
	WLCX	LaCrosse, Wis.	0.25	ND	U	IV	
	WIGM	Medford, Wis.	0.25	ND	U	IV	
	WOSH	Oshkosh, Wis.	0.25	ND	U	IV	
	KGOS	Torrington, Wyo.	0.25	ND	U	IV	
	KWOR	Worland, Wyo.	0.25	ND	U	IV	
1500	KXRX	S. Jose, Calif.	1	DA-1	U	II	
	WTOP	Washington, D.C.	50	DA-2	U	I-B	
	WABJ	Adrian, Mich.	0.25	ND	D	II	
	KSTP	S. Paul, Minn.	50	DA-2	U	I-B	
	KTAN	Sherman, Tex.	0.25	ND	D	II	
1510	KOCS	Ontario, Calif.	0.25	ND	D	II	
	KTIM	S. Rafael, Calif.	1	ND	D	II	
	WKAI	Macomb, Ill.	0.25	ND	D	II	
	WMEX	Boston, Mass.	5	DA-1	U	II	
	WMRP	Flint, Mich.	0.25	ND	D	II	
	KIMO	Independence, Mo.	1	ND	D	II	
	WLAC	Nashville, Tenn.	50	DA-N	U	I-B	
	KCTX	Childress, Tex.	0.25	ND	D	II	
	KSTV	Stephenville, Tex.	0.25	ND	D	II	
	KGA	Spokane, Wash.	50	DA-N	U	I-B	
	WAUX	Waukesha, Wis.	0.25	ND	D	II	
1520	KTED	Laguna Beach, Calif.	1 D 0.25 N	DA-1	U	II	
	WHOW	Clinton, Ill.	1	ND	D	II	
	KSIB	Creston, Ia.	1	ND	D	II	
	WKBW	Buffalo, N.Y.	50	DA-1	U	I-B	
	WKBS	Oyster Bay, N.Y.	0.25	ND	D	II	
	KOMA	Oklahoma City, Okla.	50	DA-N	U	I-B	
	WWWW	Rio Piedras, P.R.	0.25	ND	U	II	
1530	KFBK	Sacramento, Calif.	50	DA-1	U	I-B	
	WCKY	Cincinnati, Ohio	50	DA-N	U	I-B	82
	KSOX	Harlingen, Tex.	50 D 10 N	DA-1	U	II	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1540	KPOL	Los Angeles, Calif.	5	ND	D	II	
	WKXY	Sarasota, Fla.	1	ND	D	II	
	WSMI	Litchfield, Ill.	1	ND	D	II	
	WBNL	Booneville, Ind.	0.25	ND	D	II	
	WLOI	LaPorte, Ind.	0.25	ND	D	II	
	KXEL	Waterloo, Ia.	50	DA-N	U	I-B	
	KNEX	McPherson, Kan.	0.25	ND	D	II	
	KLKC	Parsons, Kan.	0.25	ND	D	II	
	WCHF	New Orleans, La.	50 D 25 N	DA-2	U	II	
	WIBL	Beverley, Mass.	0.25	ND	D	II	
	WLEW	Bad Axe, Mich.	0.25	ND	D	II	
	WPTR	Albany, N.Y.	50	DA-1	U	II	
	WCLI	Corning, N.Y.	0.25	ND	D	II	
	WATH	Athens, Ohio	1	ND	D	II	
	WJMO	Cleveland, Ohio	1	ND	D	II	
	WJMJ	Philadelphia, Pa.	1	ND	D	II	
	WRJM	Newport, R.I.	1	ND	D	II	
	KCUL	Fort Worth, Tex.	5 D 1 N	DA-1	U	II	
	KGBC	Galveston, Tex.	1 D 0.25 N	DA-N	U	II	
	KIWW	S. Antonio, Tex.	0.25	ND	D	II	
	KGIB	Bremerton, Wash.	1	ND	D	II	
	WTKM	Hartford, Wis.	0.5	ND	D	II	
1550	KSMO	S. Mateo, Calif.	1	DA-N	U	II	
	KENT	Shreveport, La.	1 D 0.5 N	DA-N	U	II	
	KRES	S. Joseph, Mo.	5	DA-N	U	II	83
	WLOA	Braddock, Pa.	1	ND	D	II	
	WBSC	Bennetsville, S.C.	10 D 5 N	DA-N	U	II	84
1560	KPMC	Bakersfield, Calif.	10	DA-1	U	I-B	38
	WBYS	Canton, Ill.	0.25	ND	D	II	
	KSWI	Council Bluffs, Ia.	0.5	ND	D	II	
	WQXR	New York, N.Y.	50	DA-1	U	I-B	85
	WTNS	Coshocton, Ohio	1	ND	D	II	
	WTOD	Toledo, Ohio	1	ND	D	II	
	KWCO	Chickasha, Okla.	0.25	DA-N	U	II	86
	WENA	Bayamon, P.R.	0.25	ND	U	II	
	KHBR	Hillsboro, Tex.	0.25	ND	D	II	
1570	KCVR	Lodi, Calif.	1	ND	D	II	
	WPLA	Plant City, Fla.	0.25	ND	D	II	
	WOKZ	Alton, Ill.	1	ND	D	II	
	WFRL	Freeport, Ill.	1	ND	D	II	
	WLRP	New Albany, Ind.	1	ND	D	II	
	KJFJ	Webster City, Ia.	0.25	ND	D	II	
	KVIM	New Iberia, La.	1	ND	D	II	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1570 (Cont.)	WPEP	Taunton, Mass.	1	ND	D	II	
	WFUR	Grand Rapids, Mich.	1	ND	D	II	
	WLIO	East Liverpool, Ohio	1	ND	D	II	
	WPTW	Piqua, Ohio	0.25	ND	D	II	
	KTAT	Frederick, Okla.	0.25	ND	D	II	
	KOLS	Pryor, Okla.	0.25	ND	D	II	
	KFGR	Forest Grove, Ore.	0.25	ND	D	II	
	WBUX	Doylestown, Pa.	0.25	ND	D	II	
	WFGN	Gaffney, S.C.	0.25	ND	D	II	
	KIVY	Crockett, Tex.	0.25	ND	D	II	
	KTER	Terrell, Tex.	0.25	ND	D	II	
1580	WATM	Atmore, Ala.	0.25	ND	D	II	
	KOWL	S. Monica, Calif.	5	ND	D	II	
	WBRD	Fort Lauderdale, Fla.	0.25	ND	D	II	
	WKID	Urbana, Ill.	0.25	ND	D	II	
	WCNB	Connersville, Ind.	0.25	ND	D	II	
	WJVA	South Bend, Ind.	0.25	ND	D	II	
	KCHA	Charles City, Ia.	0.25	ND	D	II	
	KFMA	Davenport, Ia.	0.25	ND	D	II	
	WPKY	Princeton, Ky.	0.25	ND	D	II	
	KLOU	Lake Charles, La.	1	DA-1	U	II	
	WFGM	Fitchburg, Mass.	1	ND	D	II	
	WGLC	Centreville, Miss.	0.25	ND	D	II	
	WPMP	Pascagoula, Miss.	0.25	ND	D	II	
	—	Patchogue, N.Y.	0.25	ND	D	II	
	WKAP	Allentown, Pa.	1	ND	D	II	Vide: 1320 kc/s.
	WBUT	Butler, Pa.	0.5	ND	D	II	
	KGAF	Gainesville, Tex.	0.25	ND	D	II	
	KWED	Seguin, Tex.	1	ND	D	II	PO: 0.25 kW, D.
	KEVA	Shamrock, Tex.	0.25	ND	D	II	
	WTTN	Watertown, Wis.	0.25	ND	D	II	
1590	KSJO	S. Jose, Calif.	1 D 0.5 N	DA-N	U	III	
	KVVC	Ventura, Calif.	1	DA-1	U	III	
	WBRY	Waterbury, Conn.	5	DA-1	U	III	
	WEBK	Tampa, Fla.	1	ND	D	III	
	WALB	Albany, Ga.	1	DA-N	U	III	
	WNMP	Evanston, Ill.	1	ND	D	III	
	WWXL	Peoria, Ill.	1	DA-2	U	III	
	WXLW	Indianapolis, Ind.	1	ND	D	III	
	KWBG	Boone, Ia.	1 D 0.5 N	DA-N	U	III	PO: 1 kW, D.
	KVGB	Great Bend, Kan.	5	DA-N	U	III	
	KPRS	Olathe, Kan.	1	ND	D	III	
	WOOK	Silver Spring, Md.	1	ND	D	III	
	WTVB	Coldwater, Mich.	1	ND	D	III	
	WSDC	Marine City, Mich.	1	DA-D	D	III	
	WWHG	Hornell, N.Y.	1	ND	D	III	
	WGTC	Greenville, N.C.	5 D 1 N	DA-N	U	III	1

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
*1590 (Cont.)	WAKR	Akron, Ohio	5	DA-N	U	III	
	KCHE	El Reno, Okla.	0.5	ND	D	III	
	KTIL	Tillamook, Ore.	0.25	ND	U	IV	
	WPWA	Chester, Pa.	1	DA-N	U	III	
	WXRF	Guayama, P.R.	1	ND	U	III	
	WACA	Camden, S.C.	1	ND	D	III	
	KATL	Houston, Tex.	5	DA-N	U	III	
	KCBD	Lubbock, Tex.	1	DA-2	U	III	
1600	WAPX	Montgomery, Ala.	1	DA-N	U	III	
	KGST	Fresno, Calif.	1	ND	D	III	
	KPMO	Pomona, Calif.	0.5	ND	U	III	
	KUBA	Yuba City, Calif.	1 D 0.5 N	DA-N	U	III	87
	WKWF	Key West, Fla.	0.5	ND	U	III	
	WBAT	Marion, Ind.	0.5	ND	D	III	Vide: 1400 kcs.
	KCRG	Cedar Rapids, Ia.	5	DA-N	U	III	
	KRAO	Red Oak, Ia.	0.5	ND	D	III	
	WVOM	Brookline, Mass.	5	DA-1	U	III	
	WSFL	Springfield, Mass.	5	DA-D	D	III	
	WHRV	Ann Arbor, Mich.	1	DA-1	U	III	
	WKNK	Muskegon, Mich.	5 D 1 N	DA-N	U	III	
	WWRL	Woodside, N.Y.	5	DA-1	U	III	88
	WGIV	Charlotte, N.C.	1	ND	D	III	
	WFRC	Reidsville, N.C.	1	DA-N	U	III	
	WJEL	Springfield, Ohio	0.5	ND	D	III	
	KWHP	Cushing, Okla.	0.5	ND	D	III	
	KASH	Eugene, Ore.	1	DA-N	U	III	
	KBOR	Brownsville, Tex.	1	DA-2	U	III	89
	KCFH	Cuero, Tex.	0.5	ND	D	III	
	KMAE	McKinney, Tex.	1	ND	D	III	
	KOGT	Orange, Tex.	1	DA-N	U	III	
	WHLL	Wheeling, W.Va.	5	ND	D	III	89

OBSERVATIONS
OBSERVACIONES
OBSERVATIONS

1 - PO: 1490 kc/s, 0.25 kW, U.

2 - PO: 1370 kc/s, 5 kW, U.

3 - PO: 730 kc/s, 1 kW, D.

4 - PO: 1240 kc/s, 0.25 kW, U.

5 - Transmitter:
Emisora: Gary, Ind.
Emetteur:

6 - PO: 1 kW N, 5 kW D, DA-N, U.

7 - PO: 1 kW, DA-N, U.

8 - PO: 800 kc/s, 1 kW, D.

9 - These stations share the same transmitter and directional antenna system. Stations WFAA and WBAP also share hours of operation on the frequency of 820 kc/s. When WFAA is operating on 820 kc/s, WBAP operates on 570 kc/s. Conversely when WBAP is operating on 820 kc/s, WFAA operates on 570 kc/s.

Estas estaciones comparten la misma emisora y sistema de antena dirigida. Las estaciones WFAA y WBAP tambien comparten horas de funcionamiento en la frecuencia de 820 kc/s. Cuando WFAA funciona en 820 kc/s, WBAP funciona en 570 kc/s. Por el contrario cuando WBAP funciona en 820 kc/s, WFAA funciona en 570 kc/s.

Ces stations ont un émetteur et un dispositif d'antenne dirigée communs. Les stations WFAA et WBAP se partagent les heures d'exploitations sur la frequence 820 kc/s. Lorsque WFAA émet sur 820 kc/s, WBAP émet sur 570 kc/s. Réciproquement lorsque WBAP émet sur 820 kc/s, WFAA émet sur 570 kc/s.

U.S.A.

10 - PO: 5 kW, DA-N, U.

11 - PO: 1340 kc/s, 0.25 kW, U.

12 - PO: 1460 kc/s, 5 kW D, 1 kW N, DA-N, U.

13 - Transmitter:
Emisora: E. Rio Piedras Municipality.
Emetteur:

14 - PO: 1350 kc/s, 0.5 kW N, 5 kW D, ND, U.

15 - PO: DA-N, 6:00 p.m.-10:00 a.m. E.S.T.

16 - PO: 1400 kc/s, 0.25 kW, U.

17 - Operating temporarily on:
Funciona provisionalmente en: 660 kc/s, 10 kW.
Emet temporairement sur:

18 - PO: 730 kc/s, 1 kW, D.

19 - PO: 1 kW N, 5 kW D, DA-2, U.

20 - PO: 1230 kc/s, 0.25 kW, U.

21 - Transmitter:
Emisora: Sábana Llana, Rio Piedras Municipality, P.R.
Emetteur:

In the implementation of this Agreement, this station will be changed from 620 kc/s to 810 kc/s, 5 kW, DA-1, U. Pending such implementation this station will continue as at present on this frequency.

En la ejecución de este Convenio, esta estación será cambiada de 620 kc/s a 810 kc/s, 5 kW, DA-1, U. En espera de tal ejecución la estación continuará como hasta el presente, en esta frecuencia.

Lors de la mise en oeuvre du présent Accord, l'assignation de cette station sera changée de 620 kc/s à 810 kc/s, 5 kW, DA-1, U. Jusqu'à la dite mise en oeuvre, cette station continuera ses émissions sur cette fréquence comme à présent.

22 - PO: 1450 kc/s, 0.25 kW, U.

23 - PO: 1380 kc/s, 1 kW N, 2.5 kW D, ND, U.

24 - PO: 1450 kc/s, 0.25 kW, U.

25 - PO: 10 kW, ND, D.

26 - PO: 0.5 kW N, 1 kW D, ND, U.

27 - Transmitter:
Emisora: Van Nuys.
Emetteur:

PO: 10 kW N, 50 kW D, DA-N, U.

28 - PO: 10 kW N, 50 kW D, DA-1, U.

29 - PO: 740 kc/s, 10 kW, DA-1, U. (See note 32).
(Véase nota 32).
(Voir la note 32).

This station will not limit the Cuban station at Habana to a value higher than that which will result from a 10% sky wave field intensity of 25 uV/m at a point on the Mexican border in the direction of Habana from Santurce, P.R.

Esta estación no limitará la estación cubana en la Habana a un valor mayor del que resulta de la intensidad de campo de onda reflejada de 10% de 25 uV/m en un punto de la frontera mexicana en dirección de la Habana desde Santurce, P.R.

Cette station ne limitera pas la station cubaine de La Havane à une valeur plus grande que celle qui resultera de la présence d'une intensité de champ de l'onde réfléchie (10% du temps) de 25 uV/m en un point de la frontière mexicaine situé sur la direction du rayonnement de Santurce, P.R., vers La Havane.

30 - PO: 5 kW, DA-1, U at S. Jose, Calif.

31 - Transmitter:
Emisora: Near Catano, P.R.
Emetteur:

32 - In the implementation of this Agreement this station will be changed from 740 kc/s to 730 kc/s, 10 kW, DA-1, U. Pending such implementation this station will continue as at present on this frequency.

Al ser aplicado este Acuerdo esta estación será trasladada de 740 kc/s a 730 kc/s, 10 kW, DA-1, U. Mientras se lleva a cabo esta aplicación la estación continuará, como ahora, funcionando en esta frecuencia.

Lors de la mise en oeuvre du présent Accord, l'assignation de cette station sera changée de 740 kc/s à 730 kc/s, 10 kW, DA-1, U. Jusqu'à la dite mise en oeuvre, cette station continuera ses émissions sur cette fréquence comme à présent.

33 - PO: 10 kW N, 50 kW D.

U.S.A.

34 - Temporary Operation on: 770 kc/s. See assignment on: 1030 kc/s
Funcionamiento provisional en: Véase asignación en:
Exploitation temporaire sur: Voir assignation à:

35 - See note concerning alternate operation of WBAP and WFAA in 570 kc/s notifications.

Véase la nota concerniente a la operación alterna de WBAP y WFAA en notificaciones de 570 kc/s.

Voir la note concernant l'exploitation alternative de WBAP et de WFAA dans les notifications de la fréquence 570 kc/s.

36 - PO: 860 kc/s, 5 kW, DA-1, U (See note 37).
(Véase nota 37).
(Voir la note 37).

This station will limit the radiated field toward the Cuban station at Camagüey to 175 mV/m.

Esta estación limitará el campo radiado hacia la estación cubana de Camagüey en 175 mV/m.

Cette station limitera à 175 mV/m l'intensité du champ rayonné en direction de la station cubaine de Camagüey.

37 - In the implementation of this Agreement, this station will be changed from 860 to 850 kc/s, 5 kW, DA-1, U. Pending such implementation, station will continue as at present on this frequency.

En la aplicación de este Convenio esta estación se cambiará de 860 a 850 kc/s, 5 kW, DA-1, U. Hasta que se lleve a cabo dicha aplicación, la estación seguirá como ahora, sobre esta frecuencia.

Lors de la mise en oeuvre du présent Accord, l'assignation de cette station sera changée de 860 à 850 kc/s, 5 kW, DA-1, U. Jusqu'à la dite mise en oeuvre, cette station continuera ses émissions sur cette fréquence comme à présent.

38 - PO: 1 kW, ND, U.

39 - PO: 1450 kc/s, 0.25 kW, U, IV.

40 - PO: 0.5 kW, DA-N, U.

41 - PO: 1 kW N, 5 kW D, ND, U.

42 - Transmitter: Synchronized with WBZA.
Emisora: Hull, Mass. Sincronizada con WBZA.
Emetteur: Synchronisé avec WBZA.

43 - Transmitter: Synchronized with WBZ.
Emisora: East Springfield, Mass. Sincronizada con WBZ.
Emetteur: Synchronisé avec WBZ.

44 - Temporary Operation on:
Funcionamiento provisional en: 770 kc/s, 25 kW N, 50 kW D, ND, U.
Exploitation temporaire sur:

45 - In the implementation of this Agreement, this station will be changed from 1070 kc/s to 1080 kc/s, 1 kW, ND, D. Pending such implementation, station will continue as at present on this frequency.

En la ejecución de este Convenio, esta estación será cambiada de 1070 kc/s a 1080 kc/s, 1 kW, ND, D. En espera de dicha ejecución, la estación continuará como hasta el presente, en esta frecuencia.

Lors de la mise en oeuvre du présent Accord, l'assignation de cette fréquence sera changée de 1070 kc/s à 1080 kc/s, 1 kW, ND, D. Jusqu'à la dite mise en oeuvre, cette station continuera ses émissions sur cette fréquence comme à présent.

46 - PO: 1070 kc/s, 1 kW, ND, D (See note 45).
(Véase nota 45).
(Voir la note 45).

47 - PO: 1 kW N, 10 kW D, U.

48 - PO: 10 kW, DA-1, U.

49 - PO: 1 kW, D, at Pontiac, Mich.

50 - PO: 5 kW, ND, L-WRVA.

51 - PO: 750 kc/s, 0.25 kW, D.

52 - PO: 10 kW, ND, U.

53 - PO: 0.1 kW when KPPC Pasadena, Calif., 1240 kc/s is in operation - 0.25 kW at all other times.

0.1 kW cuando KPPC Pasadena, Calif., 1240 kc/s está funcionando - 0.25 kW en todos los demás casos.

0.1 kW aux heures d'émission de KPPC Pasadena, Calif., 1240 kc/s - 0.25 kW à toutes les autres heures.

54 - PO: 1450 kc/s, 0.25 kW, U.

55 - PO: 0.1 kW N, 0.25 kW D, U.

56 - PO: 0.1 kW, S.H.-D.

57 - PO: 1050 kc/s, 0.25 kW, D, II.

75118 O—51—Ex. A——10

U.S.A.

58 - PO: 0.1 kW, S.H.

59 - Utilizes facilities of station WREN.
Utiliza las facilidades de la estación WREN.
Utilise les moyens de la station WREN.

60 - PO: 1050 kc/s, 1 kW, D.

61 - PO: Morrisville, Pa., 1490 kc/s, 0.25 kW, U.

62 - PO: 1090 kc/s, 1 kW, D.

63 - PO: 5 kW, DA-1, U.

64 - PO: 1220 kc/s, 0.25 kW, D.

65 - PO: 1580 kc/s, 1 kW, D.

66 - PO: 1000 kc/s, 1 kW, D.

67 - PO: 1140 kc/s, 0.5 kW N, 1 kW D, U.

68 - PO: 1470 kc/s, 1 kW, D.

69 - PO: 0.5 kW N, 1 kW D, DA-N, U.

70 - PO: 1 kW, DA-1, U.

71 - Unlimited except during periods of night-time operation by WAWZ.
Ilimitado excepto durante los períodos de funcionamiento por la noche por la WAWZ.
Illimité, sauf pendant les périodes d'exploitation de nuit de WAWZ.

72 - PO: 710 kc/s, 1 kW, D.

73 - PO: 1450 kc/s, 0.25 kW, U.

74 - PO: 0.25 kW, S.H.

75 - PO: 1600 kc/s, 0.5 kW, D.

76 - Station will not operate until WCBM changes to 680 kc/s.
La estación no funcionará hasta que WCBM cambie a 680 kc/s.
Cette station ne sera pas exploitée jusqu'à ce que la fréquence de WCBM ne soit devenue 680 kc/s.

77 - PO: 670 kc/s, 1 kW, D.

78 - PO: 1450 kc/s, 0.25 kW, U.

79 - PO: 810 kc/s, 1 kW, D.

80 - PO: 990 kc/s, 0.25 kW, D.

81 - PO: 1050 kc/s, 0.25 kW, D.

82 - DA after local sunset at Sacramento, Calif.
DA después de la puesta de sol local en Sacramento, Calif.
DA après l'heure locale du coucher du soleil à Sacramento, Calif.

83 - PO: 1230 kc/s, 0.25 kW, U.

84 - PO: 1400 kc/s, 0.25 kW, U.

85 - PO: 10 kW, ND, U.

The radiation toward Las Villas from the Class I-B station in New York City is not to exceed the equivalent of 10 kW from an omnidirectional antenna. Radiation from the Las Villas Class I-B station toward the service area of the Class I-B station in New York City is not to exceed the equivalent of 1 kW from an omnidirectional antenna.

La radiación hacia Las Villas desde la estación de Clase I-B en Nueva York, no excederá el equivalente de 10 kW de una antena omnidireccional. La radiación de la estación de Clase I-B de Las Villas hacia el área de servicio de la estación Clase I-B en Nueva York, no excederá al equivalente de 1 kW de una antena omnidireccional.

Le rayonnement en direction de Las Villas de la station de la classe I-B située à New York City ne doit pas dépasser le rayonnement équivalent à 10 kW de puissance appliquée à une antenne non dirigée. Le rayonnement de la station de la classe I-B située à Las Villas, en direction de la zone de service de la station de la classe I-B située à New York City ne doit pas dépasser le rayonnement équivalent à 1 kW de puissance appliquée à une antenne non dirigée.

86 - PO: 0.25 kW, D. Subject to domestic adjustments.
Sujeto a los arreglos locales.
Sous réserves d'ajustements locaux.

87 - PO: 0.5 kW, DA-1, U.

88 - PO: 0.25 kW, ND, U.

89 - PO: 1 kW, DA, D.

U.S.A.

90 - The radiated field from KFI in the direction of Cuba will not exceed 2000 mV/m.

El campo radiado desde KFI en dirección de Cuba no excederá 2000 mV/m.

Le champ rayonné par KFI en direction de Cuba ne dépassera pas 2000 mV/m.

91 - The directional antenna at the U.S.A. station in Houston, Tex., (KPRC) shall be modified so that the radiated field in the direction of Habana, Cuba, does not exceed 228 mV/m.

La antena direccional en la estación de los E.U.A. de Houston, Tex., (KPRC) será modificada para que el campo radiado en la dirección de la Habana, Cuba, no exceda de 228 mV/m.

L'antenne dirigée de la station américaine de Houston, Tex., (KPRC) doit être modifiée de telle sorte que le champ rayonné dans la direction de La Havane, Cuba, ne dépasse par 228 mV/m.

92 - This assignment is accepted by Cuba with the understanding that in the event power is increased or directional antenna installed, protection will be afforded the Cuban station in accordance with the provisions of Appendix B of Annex 2.

Esta asignación es aceptada por Cuba en la inteligencia de que en el caso de que la potencia sea aumentada o de que sea instalada una antena direccional, se dará protección a la estación cubana de acuerdo con lo previsto en el Apéndice B del Anexo 2.

Cette assignation est acceptée par Cuba, étant entendu que si la puissance est augmentée ou une antenne dirigée est installée, la station cubaine sera protégée conformément aux dispositions de l'appendice B à l'annexe 2.

93 - Canada and the United States of America recognize the existence of the unresolved conflict in assignments with respect to this station.

Canadá y los Estados Unidos de América reconocen la existencia del conflicto en las asignaciones con respecto a esta estación aun no resuelto.

Le Canada et les Etats-Unis d'Amérique reconnaissent que les assignations de ces stations sont en conflit et que ce conflit n'a pas été résolu.

94 - Canada and the United States of America recognize the existence of the unresolved problem of interference with respect to CKXL and KS00.

Canadá y los Estados Unidos de América reconocen la existencia del problema de la interferencia respecto a CKXL y KS00 que está sin resolver.

Le Canada et les Etats-Unis d'Amérique reconnaissent qu'en ce qui concerne CKXL et KS00, il existe un problème d'interférence qui n'a pas été résolu.

95 - P0: 620 kc/s, 5 kW, DA-1, U, II (See note 21).
(Vease nota 21).
(Voir la note 21).

Radiated field toward S. Clara will not exceed 420 mV/m.
El campo radiado hacia S. Clara no ha de exceder de 420 mV/m.
Le champ rayonné en direction de S. Clara ne doit pas dépasser 420 mV/m.

96 - DA after local sunset at Dallas, Tex.
DA después de la puesta de sol local en Dallas, Tex.
DA après l'heure locale du coucher du soleil à Dallas, Tex.

97 - Notwithstanding the Canadian I-B priority in the original NARBA, the I-B classification of the U.S.A. assignment KWKH, Shreveport, La., is recognized and in the future Canada will restrict the interference from the Canadian I-B assignment in British Columbia to the equivalent of 10 kW omnidirectional operation.

A pesar de la prioridad I-B canadiense que figura en el antiguo NARBA, se reconoce la clasificación I-B asignada por los E.U.A. a KWKH en Shreveport, La., y en lo sucesivo, Canadá restringirá la interferencia de la asignación canadiense I-B en Columbia Británica al equivalente de 10 kW en operación omnidireccional.

Nonobstant la priorité de classe I-B accordée au Canada dans l'ancien NARBA, le classement de l'assignation de la station américaine KWKH, Shreveport, La., est reconnu. Dans l'avenir, le Canada réduira le brouillage causé par l'assignation canadienne de classe I-B en Colombie britannique à l'équivalent de 10 kW en fonctionnement sur antenne non dirigée.

98 - It was agreed between the delegates from the United States of America and Canada that if an increase in power beyond that of a local station is contemplated for either Sault Sainte Marie, Ont. or Sault Sainte Marie, Mich., the Department of Transport will advise the Federal Communications Commission, or vice versa, in order that the increase in power of either station may be considered in conjunction with that of the other.

Los delegados de los Estados Unidos de América y Canadá están de acuerdo en que si se proyecta un aumento de potencia superior al de una estación local para Sault Sainte Marie, Ont. o Sault Sainte Marie, Mich., el Departamento de Transportes dará aviso a la Comisión Federal de Comunicaciones o viceversa, para que el aumento de potencia de cualesquiera estación pueda ser considerado conjuntamento con el de la otra.

Il a été convenu entre les délégués des Etats-Unis d'Amérique et les délégués du Canada que si l'on envisage d'augmenter la puissance de Sault Sainte Marie, Ont., ou de Sault Sainte Marie, Mich., au-delà de celle d'une station d'intérêt local, le Département des Transports avisera la Comision Fédérale des Communications, ou vice-versa, afin que l'augmentation de puissance de l'une ou de l'autre station soit examinée en relation avec celle de l'autre.

HAITI

NOTE.- The Haitian assignments listed herein are based on the latest information supplied to the Conference and are included in this Document as a matter of information only, in the absence of Haiti as a Government signatory to this Agreement.

NOTA.- Las asignaciones haitianas que aquí se enumeran están basadas en los últimos informes suministrados a la Conferencia y se incluyen en esto Documento solamente a título de informacion, en ausencia de Haití como Gobierno signatorio del Convenio.

NOTE.- Etant donné que Haiti n'est pas un Gouvernement signataire du présent Accord, les assignations haitiennes énumérées ici sont fondées sur les renseignements les plus recents fournis à la Conférence et sont incluses dans ce Document aux seules fins d'information.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1080	HHK	Leogane	25	DA	U	II	
	4VK	Leogane, Port-au-Prince	50 25 15	DA	U		
1130	4VK	Leogane, Port-au-Prince	50 25 15	DA	U		
1230	HHW	Port-au-Prince	0.3		U	IV	
	4VW	Port-au-Prince	0.25	DA-N	U		1
1430	HHGM	Port-au-Prince	1		U	III	
1470	4VGM (MBC)	Port-au-Prince	0.4	DA-N	U		1

1-	DA-N	Intermittent Intermitente Service intermittent

MEXICO
MÉXICO
MEXIQUE

NOTE.- The Mexican assignments listed herein are based on the latest information supplied to the Conference and are included in this Document as a matter of information only, in the absence of Mexico as a Government signatory to this Agreement.

NOTA.- Las asignaciones mexicanas que aquí se enumeran están basadas en los últimos informes suministrados a la Conferencia y se incluyen en este Documento solamente a título de informacion, en ausencia de México como Gobierno signatorio del Convenio.

NOTE.- Etant donné que le Mexique n'est pas un Gouvernement signataire du présent Accord, les assignations mexicaines énumérées ici sont fondées sur les renseignements les plus récents fournis à la Conférence et sont incluses dans ce Document aux seules fins d'information.

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
540	XEWA	S. Luis Potosí, S.L.P.	150	DA-N	U		
550	XEPX	La Paz, B. Cfa.	0.25		U	IV	
	XEAF	Tala, Jal.	0.15		U	IV	
	XEKL	Jalapa, Ver.	1 D 0.25 N		U	IV	
560	XEAH	S. Rosalía, B. Cfa.	0.1		U	IV	
	XEAK	Tecate, B. Cfa.	0.25		U	IV	
	XEOF	México, D. F.	1		U	III	
570	XELQ	Morelia, Michoa.	1		U	III	
580	XEAL	La Paz, B. Cfa.	0.5		U	III	
	XEHA	Ciudad Camargo, Chih.	0.5 D 0.25 N		U	IV	
	XEMU	Piedras Negras, Coah.	5 D 0.25 N		U	IV	
	XEAV	Guadalajara, Jal.	1		U	III	
	XEXB	Jalapa, Ver.	0.35		U	III	
590	XEPH	México, D.F.	5		U	III	
	XEHQ	Hermosillo, Son.	0.5		U	III	
	XERT	Reynosa, Tam.	5 D 0.25 N		U	IV	
600	XEDN	Torreón, Coah.	1		U	III	
	XEBB	Acapulco, Gro.	1		U	III	
	XEZ	Mérida, Yuc.	2		U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
610	XEBX	Sabinas, Coah.	0.5		U	III	
	XEWZ	Guanajuato, Gto.	0.25		D	IV	
	XEUF	Uruapan, Michoa.	0.5		U	III	
	XELR	Veracruz, Ver.	0.1		U	IV	
620	XENK	México, D.F.	5		U	III	
630	XETS	Tapachula, Chis.	0.5 D 0.25 N		U	IV	
	XEJB	Guadalajara, Jal.	0.5		U	III	
	XEFB	Monterrey, N.L.	5 D 0.5 N		U	III	
650	XEGT	Zamora, Michoa.	0.25		D	II	
660	XEBZ	México, D.F.	0.5	DA-N	U	II	
680	XELG	León, Gto.	10	DA-N	U	II	
690	XEAC	Tijuana, B. Cfa.	50	DA-N	U	II	
	XEN	México, D.F.	5		U	II	
730	XEX	México, D.F.	500	DA	U	I-A	
760	XEPK	Pachuca, Hgo.	0.25		D	II	
	XECO	Zapopan, Jal.	0.5		D	II	
	XETA	Zitácuaro, Michoa.	0.25		D	II	
790	XEBI	Aguascalientes, Ags.	1 D 0.25 N		U	IV	
	XERC	México, D.F.	1		U	III	
	XEDF	Nuevo Laredo, Tam.	1 D 0.5 N		U	III	
800	XEBE	Tijuana, B. Cfa.	0.5		D	II	
	XELO	Ciudad Juárez, Chih.	150		U	I-A	
	XEAN	Ocotlán, Jal.	0.25		D	II	
810	XEFW	Tampico, Tam.	50	DA-N	U	II	
830	XELA	México, D.F.	1	DA-N	U	II	

840 - 970 kc/s

Mexico

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
840	XEBA	Guadalajara, Jal.	0.25			D	II	
860	XEMO	Tijuana, B. Cfa.	5			U	II	
	XEUN	México, D.F.	5			U	II	
900	XEW	México, D.F.	250			U	I-A	
910	XEAO	Mexicali, B. Cfa.	0.25			U	IV	
920	XEON	Tuxtla Gutiérrez, Chis.	1			U	III	
	XEMJ	Piedras Negras, Coah.	0.5	D		U	IV	
			0.25	N				
	XEBD	Saltillo, Coah.	0.25			U	IV	
	XELT	Guadalajara, Jal.	0.25			U	IV	
	XEOK	Monterrey, N.L.	0.5	D		U	IV	
			0.25	N				
	XEBM	S. Luis Potosí, S.L.P.	1			U	III	
	XEBH	Hermosillo, Son.	5	D		U	III	
			1	N				
940	XEBF	Mexicali, B. Cfa.	0.25			D	II	
	XEQ	Mexico, D.F.	150	D		U	I-B	
			50	N				
950	XEGM	Tijuana, B. Cfa.	1	D	DA-N	U	III	
			2.5	N				
960	XEHK	Guadalajara, Jal.	0.25			U	IV	
	XEOP	Hermosillo, Son.	0.5			U	III	
	XEFE	Nuevo Laredo, Tam.	5	D		U	III	
			1	N				
	XEU	Veracruz, Ver.	0.5			U	III	
970	XEJ	Ciudad Juárez, Chih.	1	D	ND	U	III	
			0.1	N				
	XEK	México, D.F.	1	D		U	III	
			0.5	N				
	XERX	Salamanca, Gto.	0.5			U	III	
	XEVV	Villahermosa, Tab.	0.5			U	III	
	XEO	Matamoros, Tam.	1			U	III	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
980	XEY	Cuernavaca, Mor.	0.15		U	IV	
	XEXT	Tepic, Nay.	1		U	III	
	XEFQ	Cananea, Son.	0.5		U	III	
	XECA	Tampico, Tam.	1		U	III	
990	XECL	Mexicali, B. Cfa.	5		U	II	
	XET	Monterrey, N.L.	5		U	II	
1000	XEOY	México, D.F.	50	DA	U	I-B	
1010	XEDX	El Sauzal, B. Cfa.	0.25		D	II	
	XEHL	Guadalajara, Jal.	10 D 5 N		U	II	
	XEBN	Agua Prieta, Son.	1 D 0.25 N		U	II	
1030	XEQR	México, D.F.	1	DA-N	U	II	
1050	XED	Mexicali, B. Cfa.	5 D 1 N	DA-N	U	II	
	XEG	Monterrey, N.L.	150		U	I-A	
1060	XEDP	México, D.F.	50	DA-N	U	I-B	
1090	XERB	Rosarito, B. Cfa.	50	DA-N	U	I-B	
	XELB	La Barca, Jal.	0.25		D	II	
	XEHR	Puebla, Pue.	0.25		U	II	
	XERG	Nuevo Laredo, Tam.	0.25		D	II	
1110	XEQB	México, D.F.	20	DA	U	II	
1120	XETR	Ciudad Valles, S.L.P.	1		D	II	
1140	XENT	Nuevo Laredo, Tam.	50	DA-N	U	I-B	
1150	XEJS	Hidalgo del Parral, Chih.	0.5		U	III	
	XEJP	México, D.F.	1 D 0.6 N		U	III	
	XEAD	Guadalajara, Jal.	0.125		U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1170	XEIY	Aguascalientes, Ags.	0.5		D	II	
	XECD	Puebla, Pue.	0.35		U	II	
1180	XEFR	México, D.F.	1 D 0.25 N		U	II	
1190	XERP	Guadalajara, Jal.	50	DA-N	U	I-B	
1220	XEB	México, D.F.	100		U	I-A	
1240	XEBU	Chihuahua, Chih.	0.25		U	IV	
	XEFV	Ciudad Juarez, Chih.	0.25		U	IV	
	XERZ	León, Gto.	0.25		U	IV	
	XECE	Oaxaca, Oax.	0.25		U	IV	
	XEBQ	Empalme, Son.	0.5 D 0.25 N		U	IV	
	XECG	Nogales, Son.	0.25		U	IV	
	XES	Tampico, Tam.	0.25		U	IV	
	XEMQ	Mérida, Yuc.	1 D 0.25 N		U	IV	
1250	XEAT	Hidalgo del Parral, Chih.	0.25		U	IV	
	XESJ	Saltillo, Coah.	0.5		U	III	
	XEDK	Guadalajara, Jal.	1		U	III	
	XEDL	Hermosillo, Son.	0.5		U	III	
	XETF	Veracruz, Ver.	0.5		U	III	
1260	XEMF	Monclova, Coah.	0.25		U	IV	
	XEBP	Torreón, Coah.	1 D 0.25 N		U	IV	
	XEL	México, D.F.	5 D 1 N		U	III	
	XER	Linares, N.L.	0.25		U	IV	
	XEPO	S. Luis Potosí, S.L.P.	0.25		U	IV	
	XEBL	Culiacán, Sin.	1 D 0.5 N		U	III	
	XEDW	Minatitlán, Ver.	0.25		U	IV	
1270	XEAZ	Tijuana, B. Cfa.	0.5		U	III	
	XEOH	Ciudad Camargo, Chih.	0.15		U	IV	
	XEGW	Acambaro, Gto.	0.25		U	IV	
	XEFM	León, Gto.	0.1		U	IV	
	XEZU	Zacapu, Michoa.	0.25		U	IV	
	XEAX	Oaxaca, Oax.	0.5		U	III	
	XEGL	Navojoa, Son.	0.5		U	III	

1270 - 1340 kc/s

Mexico

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1270 (Cont.)	XEJW	Jalapa, Ver.	0.25		U	IV	
	XEME	Mérida, Yuc.	0.5		U	III	
1280	XEBW	Chihuahua, Chih.	1 D 0.6 N		U	III	
	XERL	Colima, Col.	0.25		U	IV	
	XEE	Durango, Dgo.	0.25		U	IV	
	XESQ	S. Miguel Allende, Gto.	0.1		U	IV	
	XEGJ	Guadalajara, Jal.	0.25		U	IV	
	XEAW	Monterrey, N.L.	1 D 0.5 N		U	III	
	XEAG	Córdoba, Ver.	0.5		U	III	
	XELK	Zacatecas, Zac.	0.25		U	IV	
1290	XEDA	México, D.F.	1		U	III	
	XEAP	Ciudad Obregón, Son.	0.1		U	IV	
1300	XEP	Ciudad Juárez, Chih.	0.5		U	III	
	XESF	Morelia, Michoa.	0.5		U	III	
	XECQ	Culiacán, Sin.	1 D 0.5 N		U	III	
1310	XEC	Tijuana, B. Cfa.	0.25		U	IV	
	XEMG	Gómez Palacio, Dgo.	0.25		U	IV	
	XEJE	Guadalajara, Jal.	0.25		U	IV	
	XEMS	Montemorelos, N.L.	0.25		D	IV	
	XEBY	Agua Prieta, Son.	1		D	III	
	XEHV	Veracruz, Ver.	1		U	III	
1320	XESR	S. Rosalía, B. Cfa.	0.5		U	III	
	XEAI	México, D.F.	1		U	III	
	XERJ	Mazatlán, Sin.	1 D 0.5 N		U	III	
	XESY	Magdalena, Son.	0.2		U	IV	
1330	XEKS	Saltillo, Coah.	0.1		U	IV	
	XEBO	Irapuato, Gto.	0.5		U	III	
	XEFC	Mérida, Yuc.	1		U	III	
1340	XEAA	Mexicali, B. Cfa.	0.25		U	IV	
	XEJK	Ciudad Delicias, Chih.	0.25		U	IV	
	XEDH	Villa Acuña, Coah.	0.25		U	IV	
	XECK	Durango, Dgo.	0.25		U	IV	
	XECI	Acapulco, Gro.	0.25		U	IV	

FREQUENCY FRECUENCIA FREQUENCE kc/s	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE kw	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1340 (Cont.)	XEILW	Guadalajara, Jal.	0.25		U	IV	
	XECJ	Apatzingán, Michoa.	0.1		U	IV	
	XEUX	Tuxpan, Nay.	0.25		U	IV	
	XESL	S. Luis Potosí, S.L.P.	0.25		U	IV	
	XEBJ	Ciudad Victoria, Tam.	0.25		U	IV	
	XEMT	Matamoros, Tam.	0.25		U	IV	
	XEBK	Nuevo Laredo, Tam.	0.1		U	IV	
	XEOM	Coatzacoalcos, Ver.	0.25		U	IV	
	XEFA	Jalapa, Ver.	0.25		U	IV	
	XEMA	Fresnillo, Zac.	0.25		U	IV	
1350	XETB	Torreón, Coah.	5 D 0.5 N		U	III	
	XEQK	México, D.F.	1		U	III	
	XETM	Naco, Son.	1		U	III	
	XEKF	Iguala, Gro.	1 D 0.5 N		U	III	
1360	XESA	Culiacán, Sin.	0.5		U	III	
1370	XEA	Campeche, Camp.	1		U	III	
	XEDG	Guadalajara, Jal.	0.5		U	III	
	XEMR	Monterrey, N.L.	0.5		U	III	
	XEHF	Nogales, Son.	5		U	III	
	XETQ	Orizaba, Ver.	0.25		U	IV	
1380	XELF	Nueva Rosita, Coah.	0.25		U	IV	
	XEMX	México, D.F.	5		U	III	
	XERK	Tepic, Nay.	0.5		U	III	
1390	XEM	Chihuahua, Chih.	0.5		U	III	
	XEKN	Monclova, Coah.	0.5		U	III	
	XERW	León, Gto.	0.25		U	IV	
	XETK	Mazatlán, Sin.	1 D 0.5 N		U	III	
	XEOR	Reynosa, Tam.	1		U	III	
	XETL	Tuxpan, Ver.	1		U	III	
1400	XEPF	Ensenada, B. Cfa.	0.2		U	IV	
	XETX	Casas Grandes, Chih.	0.25		U	IV	
	XESB	S. Bárbara, Chih.	0.15		U	IV	
	XEDE	Saltillo, Coah.	0.25		U	IV	
	XECM	Manzanillo, Col.	0.25		U	IV	
	XEDU	Durango, Dgo.	0.25		U	IV	
	XERS	Gómez Palacio, Dgo.	0.25		U	IV	
	XEKJ	Acapulco, Gro.	0.25		U	IV	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW		ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1400 (Cont.)	XESP	S. Pedro Tlaquepaque, Jal.	0.25			U	IV	
	XEI	Morelia, Michoa.	0.25			U	IV	
	XEWF	Cuautla, Mor.	0.1			U	IV	
	XEAJ	Navojoa, Son.	0.1			U	IV	
	XEAB	S. Ana, Son.	0.25			U	IV	
	XETO	Tampico, Tam.	0.25			U	IV	
	XEJA	Jalapa, Ver.	0.1			U	IV	
	XEDQ	S. Andrés Tuxtla, Ver.	0.25			U	IV	
	XECN	Progreso, Yuc.	0.25			U	IV	
1410	XEBS	México, D.F.	1			U	III	
	XECF	Los Mochis, Sin.	1	D		U	III	
			0.5	N				
	XEAS	Nuevo Laredo, Tam.	0.25			U	IV	
	XEVH	Valle Hermoso, Tam.	0.2			U	IV	
1420	XEXX	Tijuana, B. Cfa.	2			U	III	
	XEF	Ciudad Juárez, Chih.	0.25			U	IV	
	XEWE	Irapuato, Gto.	0.1			U	IV	
	XEJC	Cuernavaca, Mor.	0.25			U	IV	
	XEH	Monterrey, N.L.	1			U	III	
	XEWJ	Tehuacán, Pue.	0.25			U	IV	
	XEDS	Mazatlán, Sin.	1	D		U	III	
			0.5	N				
1430	XERN	Nueva Rosita, Coah.	0.1			U	IV	
	XEBC	Ciudad Guzmán, Jal.	0.25			U	IV	
	XECZ	S. Luis Potosí, S.L.P.	1			U	III	
	XEOX	Ciudad Obregón, Son.	1	D		U	III	
			0.5	N				
	XELL	Veracruz, Ver.	0.25			U	IV	
1440	XEFI	Chihuahua, Chih.	1			U	III	
	XELZ	Mexico, D.F.	5	D		U	III	
			1	N				
1450	XEYZ	Aguascalientes, Ags.	0.1			U	IV	
	XECT	Ojinaga, Chih.	0.25			U	IV	
	XEFK	Gómez Palacio, Dgo.	0.5	D		U	IV	
			0.25	N				
	XEGC	Sahuayo, Michoa.	0.25			U	IV	
	XEAR	Monterrey, N.L.	0.25			U	IV	
	XENA	Querétaro, Qro.	1	D		U	IV	
			0.25	N				
	XEGF	Culiacán, Sin.	0.25			U	IV	
	XEHX	Huatabampo, Son.	0.25			U	IV	

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1450 (Cont.)	XEDJ	Magdalena, Son.	0.1		U	IV	
	XECB	S. Luis Río Colorado, Son.	0.25		U	IV	
	XECS	Ciudad Mante, Tam.	0.15		U	IV	
	XECP	Ciudad Victoria, Tam.	0.1		U	IV	
	XEAM	Matamoros, Tam.	0.25		U	IV	
	XEPP	Orizaba, Ver.	0.25		U	IV	
	XEQW	Mérida, Yuc.	0.25		U	IV	
	XEXZ	Zacatecas, Zac.	0.25		U	IV	
	XEYC	Ciudad Juárez, Chih.	1		U	III	
	XEXQ	S. Luis Potosí, S.L.P.	0.25		U	IV	
	XETU	Tampico, Tam.	1		U	III	
1470	XEAU	Tijuana, B. Cfa.	5		U	III	
	XESM	Mexico, D.F.	5		U	III	
	XECU	Los Mochis, Sin.	0.25		U	IV	
1480	XEZM	Zamora, Michoa.	5		U	III	
1490	XERO	Aguascalientes, Ags.	0.25		U	IV	
	XERA	Chihuahua, Chih.	0.25		U	IV	
	XEWG	Ciudad Juárez, Chih.	0.25		U	IV	
	XEJR	Hidalgo del Parral, Chih.	0.1		U	IV	
	XEXU	Saltillo, Coah.	0.1		U	IV	
	XEOB	Torreón, Coah.	0.1		U	IV	
	XECH	Toluca, Méx.	0.25		U	IV	
	XECV	Guasave, Sin.	0.25		U	IV	
	XEAQ	Agua Prieta, Son.	0.25		U	IV	
	XEDR	Guaymas, Son.	0.5 D 0.25 N		U	IV	
	XECW	Veracruz, Ver.	0.1		U	IV	
	XEMH	Mérida, Yuc.	0.25		U	IV	
1500	XERH	México, D.F.	5 D 0.5 N		U	II	
1520	XEDB	Tehuacán, Pue.	0.25		U	II	
	XEJX	Querétaro, Qro.	0.25		D	II	
	XECY	Huamantla, Tlax.	0.25		D	II	
1540	XENC	Celaya, Gto.	0.25		U	II	
	XEQN	Hermosillo, Son.	5		U	II	
1550	XEBG	Tijuana, B. Cfa.	1		U	II	
	XEML	México, D.F.	20		U	I-B	

1560 - 1600 kc/s

Mexico

FREQUENCY FRECUENCIA FREQUENCE KC/S	CALL LETTERS LETRAS DE LLAMADA INDICATIF D'APPEL	STATION ESTACIÓN STATION	POWER POTENCIA PUISSANCE KW	ANTENNA ANTENA ANTENNE	SCHEDULE HORARIO HORAIRE	CLASS CLASE CLASSE	OBSERVATIONS OBSERVACIONES OBSERVATIONS
1560	XEDC	Aguascalientes, Ags.	0.25		U	II	
	XEDD	Monterrey, N.L.	0.5		D	II	
1570	XERF	Villa Acuña, Coah.	150		U	I-A	
	XEDI	Queretaro, Qro.	1		D	II	
1580	XEDM	Hermosillo, Son.	50		U	II	
1590	XEKT	Tecate, B. Cfa.	1		D	III	
	XEMC	México, D.F.	5		U	III	
	XENS	Nogales, Son.	5		U	III	
1600	XEAE	Villa Acuña, Coah.	5		U	III	
	XEDO	Acapulco, Gro.	0.5		U	III	
	XELC	La Piedad, Michoa.	1		U	III	